

last update 23/2/2014

FamilyLenaFWHMN/A degreesTypeBase partEfficiency-ColorWhileGerber FileAvailableDiameter13.25 nmHeigh13.25 nmOptic MaterialProduct numberC1248_LENA-WASFWHMAvailableFamilyLenaColorStatusProduct numberC1248_LENA-WASFWHMAsymmetric degreesFamilyLenaCL-1340EfficiencyAsymmetric degreesFamilyLenaLEDCL-1340Certer FileAvailableDiameter111 nmHeigh37 nmStyleRoundOptic MaterialProduct numberC1248_LENA-WASFWHMAsymmetric degreesFiliciencyStyleRoundOptic MaterialColorMetalDiameter111 nmHeigh37 nmStyleRoundOptic MaterialLEDCL-1340Optic Material-		Product number	C11995_LENA-STD-BASE-	CL340	
Type Base part Calor Efficiency White - Calor White Gerber File Available Dameter 58,63 mm Gerber File Available Style Round PC Escaw1 Style Round PC Escaw1 Status Product number C12948_LENA-WAS FWHM Asymmetric degrees Family Lena FWHM Asymmetric degrees Status Product number C12948_LENA-WAS FWHM Asymmetric degrees Family Lena FWHM Asymmetric degrees 84 % Color Metal Production ready Gerber File Available File Clave Metal Gerber File Available Optic Material PC Nond Gerber File Available Optic Material PC Nond Gerber File Available Optic Material PC Nond Gerber File Available Type Reflector Efficiency Clave Available Fype Reflector Efficiency Clave Available Diameter 111 mm Height 37 mm Style Opoiduction ready Fype		Family	Lena	E///HM	N/A degrees
LED CL-L340 cd/m - Odor White Gerber File Available Diameter 58.63 mm - Gerber File Available Note PC - - - Height 13.25 mm PC - - Holder Material PC - - - Holder Material PC - - - Status Productionmeady Productioneady - - Type Reflector Efficiency 24 % - Color Metal Gerber File Available Diameter 111 mm - - - Style Round - - - - Color Metal - - - - Diameter 111 mm - - - - Style Round - - - - Color Metal - - - - Diameter 111 mm - - - - Style Round - - - - Color Metal - - -					N/A degrees
Color While Gener File Available Diameter 58,65 mm Height 13,25 mm Syste Round Style Round - - - - Height 13,25 mm Syste Round - Optic Material - - - - - Holder Material - - - - - Status Production ready Production ready 84 % - Family Lena FMHM Asymmetric degrees 84 % LED CL-1340 Gerber File Available Optic Material - - - - Noneter 111 mm - - - Height 37 mm Status Production ready - Product number C1294_LENA-WAS Ethicincy 27 % Product number C1294_LENA-WAS Ethicincy 27 % Product number C1294_LENA-WAS Ethicincy 27 % Optic Material - - - - Family Lena FWHM Asymmetric degrees Type Reflector Clave Ethicincy 73 % <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
Diameter 58.63 mm Height 13.25 mm Style Round Optic Material PC Holder Material PC Fastening Production ready Product number C12948_LENA-WAS Fastening Production ready Product number C1248. Color Metal Diameter 111 nm Height 37 nm Style Round Optic Material - Color Metal Diameter 111 nm Height 37 nm Style Round Optic Material - Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 73 % Optic Material - - - Fasting ['glue'] - - Status Production ready Gerber File Avaitable					- Availabla
Height 13.25 mm Style Round Opic Material - Holder Material PC Eastening [Stylew] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED C1-L340 Color Metal Diameter 111 mm Height 37 mm Style Round Opic Material - Height 37 mm Style Round Opic Material - Family Lena View Round Opic Material - Fasting ['glue'] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector Type Reflector Type Reflector Type Reflector Type Reflector Type Reflector <				Gerber File	Available
Style Round Optic Material - Holder Material PC Fastening ["screw"] Status Production ready Product number C12948_LENA-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 84 % Color Metal Gerber File Available Diameter 111 mm Round Optic Material P Height 37 mm Round Optic Material P Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 73 % Optic Material PC Product number C12948_LENA-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 73 % Color Metal Gerber File Available Diameter 111 mm Gerber File Available Diameter 121 mm Gerber File Available Diameter 111 mm Gerber File <th< th=""><th></th><th></th><th></th><th></th><th></th></th<>					
Opic Material Holder Material - Holder Material Status PC Forcever] Status - Family LED Lena CL-L340 FWHM Efficiency Available Asymmetric degrees 84 % 		-			
Holder Material Fastening PC ['screw'] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector Color LED CL-1340 Color Option Material Diameter PC Holder Material P					
Fastening ['Sorew'] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-L340 Color Metal Diameter 111 mn Height 37 mm Style Round Optic Material PC Holder Material Production ready Product number C12948_LENA-WAS Family Lena Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Fastening ['glue'] Style Round Optic Material -		•			
Status Production ready Product number C12948_LENA-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 84 % LED CL-1340 Efficiency 84 % Octor Metal Diameter 11.170 Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS EWHM Asymmetric degrees Style Round Optic Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS EWHM Asymmetric degrees Family Lena Family Lena FWHM Asymmetric degrees Type Reflector LeD CL-1340 Gd/m O.900 Gerber File Available Optic Material PC Production ready PC Holder Material PC Available Type Reflector LeD Cl-1340 Gd/m G.900 Status					
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Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 84 % LED CL-1340 Gerber File Available Diameter 111 nm Berber File Available Style Round Opto Material PC Holder Material PC Berber File Available Type Reflector Efficiency 73 % Eastening ['glue'] Staus Production ready Product number C12948_LENA-WAS Efficiency 73 % Color Metal Diameter 111 nm Height 37 nm Style Color Type Reflector Efficiency 73 % LED C-L-1340 Gerber File Available Diameter 111 nm Berbinit 37 nm Style Round Optic Material PC Holder Material PC Berbinit Berbinit Height 37 nm Style Color Metal Diameter 111 nm Berbinit PC			-		
Type Reflector Efficiency 84 % LED CL-L340 G/m 1.170 Gerber File Available Diameter 111 mm Height 37 mm Syste Round Optic Material PC Holder Material - Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Efficiency 73 % Color Metal Optic Material - Type Reflector Efficiency 73 % Color Metal Optic Material - Type Reflector Efficiency 73 % Color Metal Optic Material - Type Reflector Efficiency 73 % LED CL-1340 od/m 0.900 Gerber File Available - Pastening ['glue'] Status Production ready Product number C13101_LENA-X-WAS Efficiency 28 % Fastening ['glue'] Status Production ready Product number C13101_LENA-X-WAS Efficiency 82 % Fastening Color White Efficiency 82 % <t< th=""><th></th><th>Product number</th><th>C12948_LENA-WAS</th><th></th><th></th></t<>		Product number	C12948_LENA-WAS		
LED CL-L340 cd/m 1.170 Color Metal Gerber File Available Style Round Optio Material PC Holder Material - - - Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS FWHM Asymmetric degrees Family Lena Ffficiency 73 % Color Metal Optio Material PC Color Metal Optio Material PC Family Lena Fifticiency 73 % Color Metal Gerber File Available Diameter 111 mm Gerber File Available Height 37 mm Status Production ready Product number C13101_LENA-X-WAS Efficiency 82 % Family Lena Family Status Production ready Product number C13101_LENA-X-WAS Efficiency 82 % Sood Color White Color Gerber File Available Type <th></th> <th>Family</th> <th>Lena</th> <th>FWHM</th> <th>Asymmetric degrees</th>		Family	Lena	FWHM	Asymmetric degrees
Color Metal Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder 111 mm Style Round Optic Material PC Holder Type Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS Efficiency 73 % cd/m 0.900 Color Cul-1340 Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material - - - Type Reflector Efficiency 73 % - - LED CL-1340 Gerber File Available - Diameter 111 mm - - - - - Style Round Optic Material - - - - - Style Round Optic Material - - - - - - - - <		Туре	Reflector	Efficiency	84 %
Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-L340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ["glue"] Style Round Optic Material - Fastening ["glue"] Style Round Optic Material - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Fastening Gerber File Asymmetric degreese Type Reflector		LED	CL-L340	cd/lm	1.170
Height 37 mm Style Round Optic Material PC Holder Material - Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector Efficiency 73 % Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ['glue'] Status 9C Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ['glue'] Status Product number C13101_LENA-X-WAS Function Efficiency 82 % Color Wetal - Fastening ['glue'] Gerber File Asymmetric degrees Type Reflector Efficiency 82 % Color		Color	Metal	Gerber File	Available
Style Round Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-1340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material Gerber File Available Diameter Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material PC LED <t< th=""><th></th><th>Diameter</th><th>111 mm</th><th></th><th></th></t<>		Diameter	111 mm		
Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-L340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fasting ["glue"] Status Production ready Product number CL-340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Family Lena Type Reflector LED CL-1340 Color White Diameter 111 mm Height 37 mm Style Round <	- Stellarda	Height	37 mm		
Holder Material - Fastening ["glue"] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-1340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ["glue"] Status Production ready Procention Gerber File Available Diameter Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Fastening ["glue"] Status Product number Type Reflector LED CL-1340 Color White Diameter 111 mm Height 37 mm Style		Style	Round		
Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LED CL-1340 Color Metal Diameter 111 mm Height 37 nm Style Round Optic Material PC Holder Material - Fastening ['glue'] Status Production ready Product number C12948_LENA-WAS Style Reflector LED CL-1340 Color Metal Diameter 111 mm Height 37 nm Status Production ready Product number C13101_LENA-X-WAS Family Lena FWHM Type Reflector LED CL-1340 cd/Im Color White Gerber File Available Diameter 111 mm Height 37 nm Style Round Opto Material HRPC </th <th></th> <th>Optic Material</th> <th>PC</th> <th></th> <th></th>		Optic Material	PC		
Status Production ready Product number C12948_LENA-WAS Family Lena Type Reflector LDD CL-L340 Color Metal Diameter 111 mm Height 37 mm Status Production ready Vertice Round Optic Material PC Holder Material - Fastening ['glue'] Status Production ready Product number C13101_LENA-X-WAS Fastening ['glue'] Status Production ready Product number C13101_LENA-X-WAS Fastening ['glue'] Status Production ready Product number C13101_LENA-X-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 82 % Color White Size Cal/m 0.500 Color Color White Size Size LED CL-L340 Gerber File Available<		Holder Material	-		
Forduct number C12948_LENA-WAS Family Lena Type Reflector LED CL-1340 Color Metal Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material - Eastening ['glue''] Status Product number Color Welfector Eastening ['glue'] Status Product number Product number C13101_LENA-X-WAS Family Lena Type Reflector Eastening ['glue'] Status Product number Color White Color White Diameter 111 mm Height 37 mm Style Round Optic Material - LED C-L-1340 Color White Diameter 111 mm Height 37 mm Style Round		Fastening	["glue"]		
Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 73 % LED Cl-L340 Cd/m 0.900 Color Metal Bramity Asymmetric degrees Diameter 111 mm Height 37 mm Style Round Optic Material - Product number Cl3101_LENA-X-WAS Status Production ready Product number Cl-L340 Cd/m 0.500 Color White Branity Lena Type Reflector Efficiency 82 % Color Muterial - - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Efficiency 82 % Color White Color White Asymmetric degrees Type Reflector Efficiency 82 % 6d/m 0.500 Color White Status Status Asymmetric degrees 82 % 6d/m 0.500 6erber File Available Dia		Status	Production ready		
Type Reflector Efficiency 73 % LED CL-L340 cd/m 0.900 Color Metal Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material - Fastening ['glue'] Status Product number C13101_LENA-X-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 82 % Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0.500 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0.500 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0.500 0.500 Color White Gerber File <th></th> <th>Product number</th> <th>C12948_LENA-WAS</th> <th></th> <th></th>		Product number	C12948_LENA-WAS		
Type Reflector Efficiency 73 % LED CL-L340 cd/m 0.900 Color Metal Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material PC Holder Material - Fastening ["glue"] Status Product number C13101_LENA-X-WASS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 82 % Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0,500 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0,500 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round 0,500 0.500 Pobic Material - -		Family	Lena	FWHM	Asymmetric degrees
LEDCL-L340cd/lm0.900ColorMetalGerber FileAvailableDiameter111 mmHeight37 mmStyleRoundOptic Material-Poder MaterialFastening["glue"]StatusFroduct numberC13101_LENA-X-WASFWHMFamilyLenaFWHMTypeReflectorEfficiencyLEDCL-L340cd/lmColorWhiteGerber FileDiameter111 mmHeight37 mmStyleRundOptic Material-FarmilyLenaTypeReflectorLEDCL-L340ColorWhiteDiameter111 mmHeight37 mmStyleRoundOptic Material-FightStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]					
ColorMetalGerber FileAvailableDiameter111 mmHeight37 mmStyleRoundOptic MaterialPCHolder Material-Fastening["glue"]StatusProduction readyProduct numberC13101_LENA-X-WASFamilyLenaTypeReflectorLEDCL-L340ColorWhiteDiameter111 mmHeight37 mmStyleRoundOptic Material-FamilyLenaTypeReflectorLEDCL-L340ColorWhiteDiameter111 mmHeight37 mmStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]					
Diameter111 mmHeight37 mmStyleRoundOptic MaterialPCHolder Material-Fastening["glue"]StatusProduction readyForduct numberC13101_LENA-X-WASFamilyLenaTypeReflectorEfficiency82 %LEDCL-1340ColorWhiteDiameter111 mmHeight37 mmStyleRoundOptic Material-Height137 mmStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]				Gerber File	
Height 37 mm Style Round Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Family Lena Type Reflector LED CL-L340 Color White Diameter 111 mm Height 37 mm Style Round Optic Material - Family Lena Family Lena Style Reflector LED CL-L340 Color White Diameter 111 mm Height 37 mm Style Round Optic Material - Fastening ["glue"]					
Style Round Optic Material PC Holder Material - Fastening ["glue"] Status Production ready Product number C13101_LENA-X-WAS Family Lena FWHM Asymmetric degrees Type Reflector Efficiency 82 % LED CL-L340 cd/lm 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material HRPC Holder Material - - Fastening ["glue"] -					
Optic Material Holder Material Fastening StatusPC Holder Material Fastening Troduction readyProduct numberC13101_LENA-X-WASFamily TypeLena Reflector LED CL-L340 Col/mFWHM StatusAsymmetric degrees Efficiency DiameterAsymmetric degrees 82 % ClorDiameter Diameter111 mm Height Style DiameterAsymmetric degrees HRPC Holder Material Fastening FasteningOptic Material FasteningPC ("glue"]FWHM FWHM Asymmetric degrees Efficiency Gerber FileAvailable					
Holder Material Fastening Status- ["glue"] StatusProduct numberC13101_LENA-X-WASProduct numberC13101_LENA-X-WASFamilyLena ReflectorFWHMFamilyLena CL-L340FWHMOctorWhiteGerber FileDiameter111 mm HeightHeight37 mm StyleStyleRound Optic MaterialHolder Material- - - - FasteningFigure ("glue")- - - -					
Fastening Status["glue"] Production readyProduct numberC13101_LENA-X-WASFamilyLenaFWHMAsymmetric degreesTypeReflectorEfficiency82 %LEDCL-L340cd/lm0.500ColorWhiteGerber FileAvailableDiameter111 mmHeight37 mmStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]		•			
Status Production ready Product number C13101_LENA-X-WAS Family Lena Type Reflector LED CL-L340 Color White Diameter 111 mm Height 37 mm Style Round Optic Material HRPC Holder Material - Fastening ["glue"]			["alue"]		
Product numberC13101_LENA-X-WASFamilyLenaFWHMAsymmetric degreesTypeReflectorEfficiency82 %LEDCL-L340cd/lm0.500ColorWhiteGerber FileAvailableDiameter111 mm1100000000000000000000000000000000000		•			
FamilyLenaFWHMAsymmetric degreesTypeReflectorEfficiency82 %LEDCL-L340cd/lm0.500ColorWhiteGerber FileAvailableDiameter111 mmHeight37 mmStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]			-		
Type Reflector Efficiency 82 % LED CL-L340 cd/lm 0.500 Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material HRPC Holder Material - Fastening ["glue"]					
LEDCL-L340cd/lm0.500ColorWhiteGerber FileAvailableDiameter111 mmHeight37 mmStyleRoundOptic MaterialHRPCHolder Material-Fastening["glue"]					
Color White Gerber File Available Diameter 111 mm Height 37 mm Style Round Optic Material HRPC Holder Material - Fastening ["glue"]					
Diameter 111 mm Height 37 mm Style Round Optic Material HRPC Holder Material - Fastening ["glue"]					
Height 37 mm Style Round Optic Material HRPC Holder Material - Fastening ["glue"]				Gerber File	Available
Style Round Optic Material HRPC Holder Material - Fastening ["glue"]					
Optic Material HRPC Holder Material - Fastening ["glue"]		-			
Holder Material - Fastening ["glue"]					
Fastening ["glue"]					
Status Production ready		-			
		Status	Production ready		

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Product number	C13101_LENA-X-WAS		
Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Product number	Lena Reflector CL-L340 White 111 mm 37 mm Round HRPC - ["glue"] Production ready CN13158_LENA-WAS	FWHM Efficiency cd/lm Gerber File	Asymmetric degrees 84 % 1.170 Available
Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Product number	Lena RefPack CL-L340 Metal 111 mm 38.7 mm Round - - ["socket"] Production ready		Asymmetric degrees 84 % 1.170 Available d-locks into included base part that ice. Base part is attached into heat
Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status Product number	Lena RefPack CL-L340 Metal 111 mm - Round PC - ["socket"] Production ready CN13373_LENA-X-WAS-DL		Asymmetric degrees 73 % 0.900 Available d-locks into included base part that ice. Base part is attached into heat
Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status	Lena RefPack CL-L340 White 111 mm 42 mm Round HRPC - ["socket", "screw"] Production ready		Asymmetric degrees 82 % 0.500 Available d-locks into included base part that ice. Base part is attached into heat

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	Product number	CN13374_LENA-X-WAS		
	Family	Lena	FWHM	Asymmetric degrees
	Туре	RefPack	Efficiency	84 %
	LED	CL-L340	cd/lm	1.170
	Color	White	Gerber File	Available
	Diameter	111 mm		
	Height	39.9 mm		nd-locks into included base part that
	Style	Round		ace. Base part is attached into heat
	Optic Material	-	sink with screws.	
	Holder Material	-		
Lano e statut	Fastening	["socket", "screw"]		
	Status	Production ready		
	Product number	CN12367_LENA-FRESNEL		
		_		
	Family	Lena	FWHM	8 degrees
	Туре	RefPack	Efficiency	36 %
	LED	CL-L340	cd/lm	9.600
	Color	Black	Gerber File	Available
	Diameter	111 mm		
	Height	87.7 mm		
	Style	Round		
	Optic Material	PC		
	Holder Material	-		
	Fastening	["screw", "socket"]		
	Status	Production ready		
	Product number	C11979_LENA-S		
	Family	Lena	FWHM	11 degrees
	Туре	Reflector	Efficiency	84 %
	LED	CL-L340	cd/lm	10.100
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	80 mm		
	Style	Round		
	Optic Material	PC		
	Holder Material	-		
	Fastening			
	Status	Production ready		
	Product number	CN12101_LENA-S		
a The and the	Family	Lena	FWHM	11 degrees
	Туре	RefPack	Efficiency	84 %
	LED	CL-L340	cd/lm	10.100
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	86.1 mm		
	Style	Round		
	Optic Material	-		
	Holder Material	-		
	Fastening	["screw"]		
	Status	Production ready		

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	Product number	C11979_LENA-S		
	Family Type	Lena Reflector	FWHM Efficiency	14 degrees 79 %
	LED	CL-L340	cd/lm	8.000
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	80 mm		
	Style	Round		
	Optic Material	PC		
	Holder Material	-		
	Fastening			
	Status	Production ready		
	Product number	CN12112_LENA-S-DL		
	Family	Lena	FWHM	14 degrees
A H	Туре	RefPack	Efficiency	79 %
	LED	CL-L340	cd/lm	8.000
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	87.7 mm		
	Style	Round		
	Optic Material	PC		
	Holder Material	-		
	Fastening	["screw"]		
	Status	Production ready		
	Product number	C12154_LENA-M		
	Family	Lena	FWHM	22 degrees
	Туре	Reflector	Efficiency	83 %
	LED	CL-L340	cd/lm	4.700
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	80 mm		
	Style	Round		
	Optic Material	PC		
	Holder Material	-		
	Fastening	""		
	Status	Production ready		
	Product number	CN12161_LENA-M		
	Family	Lena	FWHM	22 degrees
	Туре	RefPack	Efficiency	83 %
	LED	CL-L340	cd/lm	4.700
	Color	Metal	Gerber File	Available
	Diameter	111 mm		
	Height	86.1 mm		
	Style	Round		
45	Optic Material	-		
	Holder Material	-		
	Fastening	-		
	Status	Production ready		

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	Product number
	Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status
	Product number Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status
~	Product number
	Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status
	Product number Family Type LED Color Diameter Height Style Optic Material Holder Material Fastening Status
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roduct number	C12154_LENA-M		
amily	Lena	FWHM	24 degrees
/pe	Reflector	Efficiency	78 %
ED	CL-L340	cd/lm	3.800
olor	Metal	Gerber File	Available
iameter	111 mm		
eight	80 mm Round		
tyle ptic Material	PC		
older Material	-		
astening	-		
tatus	Production ready		
	1 roddollon roddy		
roduct number	CN12166_LENA-M-DL		
amily	Lena	FWHM	24 degrees
/pe	RefPack	Efficiency	78 %
ĒD	CL-L340	cd/lm	3.800
olor	Metal	Gerber File	Available
iameter	111 mm		
eight	86.1 mm		
tyle	Round		
ptic Material	PC		
older Material	-		
astening	["screw"]		
tatus	Production ready		
roduct number	C11980_LENA-W		
r oduct number amily	C11980_LENA-W	FWHM	45 degrees
	_	FWHM Efficiency	45 degrees 75 %
amily	Lena		•
amily ype	Lena Reflector	Efficiency	75 %
amily ype ED	Lena Reflector CL-L340	Efficiency cd/lm	75 % 1.400
amily ype ED olor	Lena Reflector CL-L340 Metal	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle	Lena Reflector CL-L340 Metal 111 mm	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight	Lena Reflector CL-L340 Metal 111 mm 80 mm	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC	Efficiency cd/lm	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - ""	Efficiency cd/lm	75 % 1.400 Available
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL	Efficiency cd/lm Gerber File	75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena	Efficiency cd/lm Gerber File	75 % 1.400 Available 45 degrees
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena RefPack	Efficiency cd/lm Gerber File FWHM Efficiency	75 % 1.400 Available 45 degrees 75 %
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor iameter	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal 111 mm	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor iameter eight	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal 111 mm 87.7 mm	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor iameter eight tyle	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal 111 mm 87.7 mm Round	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor iameter eight tyle ptic Material	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal 111 mm 87.7 mm Round	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400
amily ype ED olor iameter eight tyle ptic Material older Material astening tatus roduct number amily ype ED olor iameter eight tyle ptic Material older Material	Lena Reflector CL-L340 Metal 111 mm 80 mm Round PC - "" Production ready CN12113_LENA-W-DL Lena RefPack CL-L340 Metal 111 mm 87.7 mm Round PC	Efficiency cd/lm Gerber File FWHM Efficiency cd/lm	75 % 1.400 Available 45 degrees 75 % 1.400

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NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

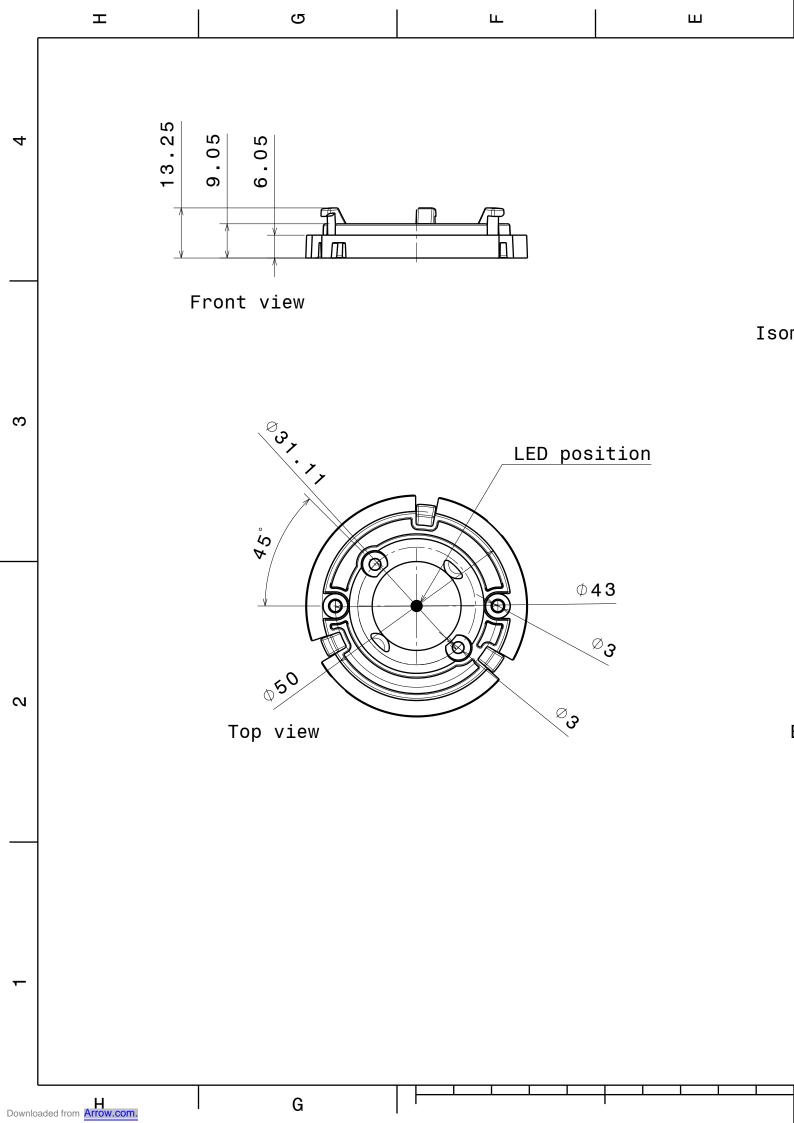


PRODUCT DATASHEET Lena series last update 23/2/2014

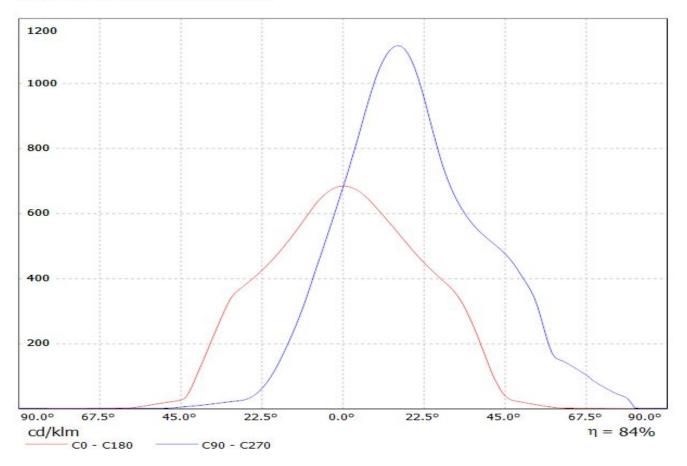
GENERAL INFORMATION

- Product series especially designed & optimized for CL-L340 series of LEDs.

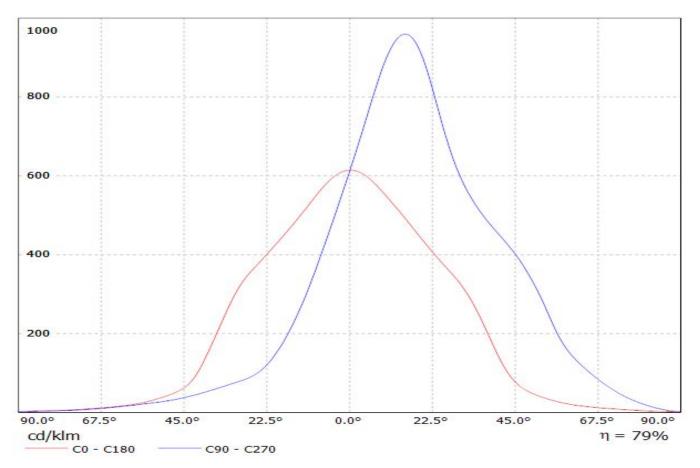
Special care taken to make light distribution as uniform as possible.
Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).
Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).



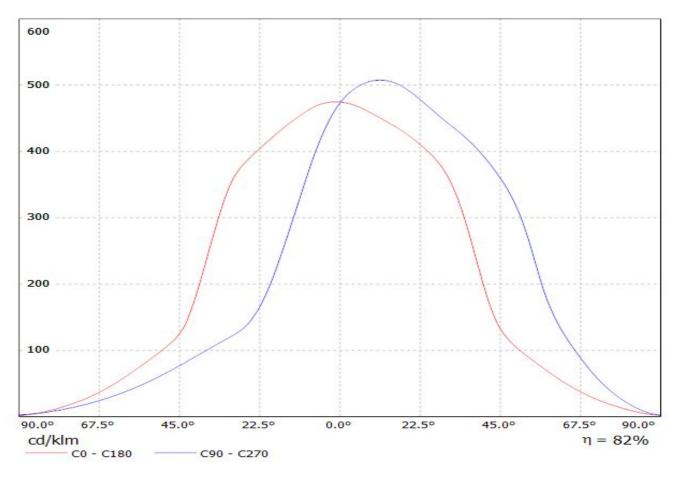
Luminaire: LEDiL Oy CN13158_LENA-WAS_(CL-L340) Eff.83.7% Lamps: 1 x CL-L340 (929.39Im@250mA)



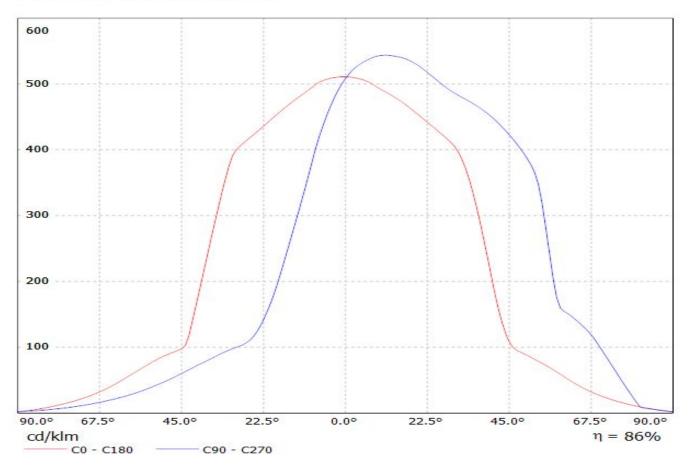
Luminaire: LEDiL Oy CN13168_LENA-WAS-DL_(CL-L340) Eff.79.2% Lamps: 1 x CL-L340 (929.39Im@250mA)



Luminaire: LEDiL Oy CN13373_LENA-X-WAS-DL_(CL-L340) Eff.82.2% Lamps: 1 x CL-L340 (929.39Im@250mA)

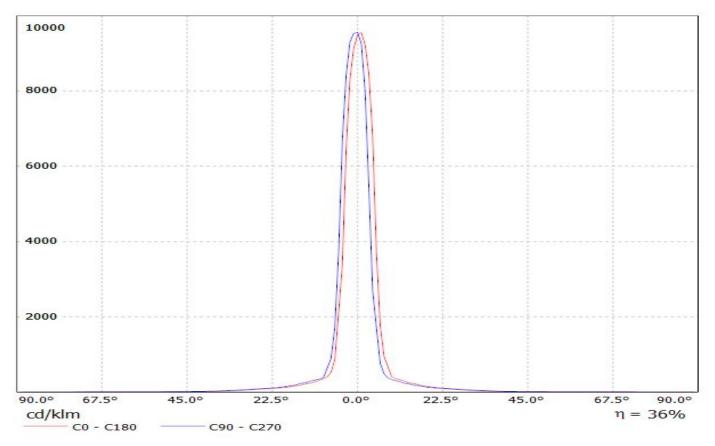


Luminaire: LEDiL Oy CN13374_LENA-X-WAS_(CL-L340) Eff.86.3% Lamps: 1 x CL-L340 (929.39Im@250mA)

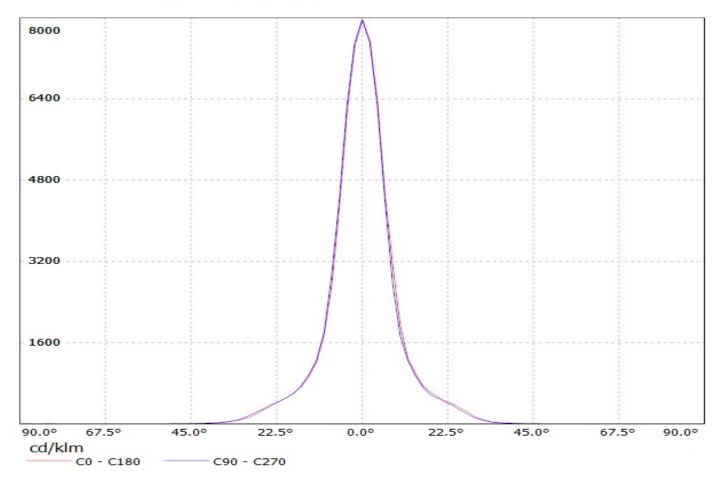


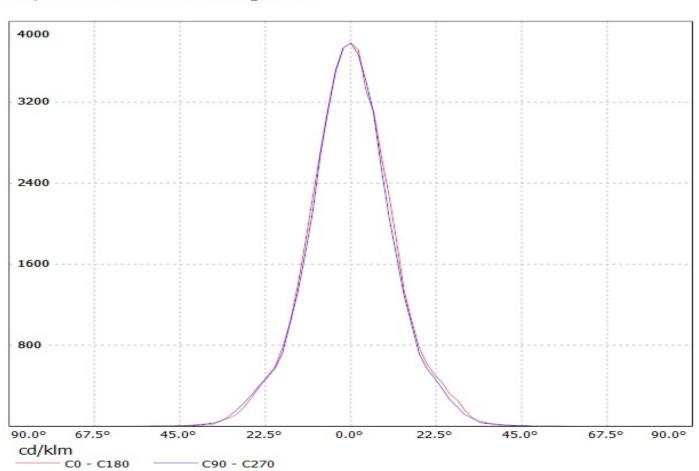
LEDIL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1% / LDC (Linear)





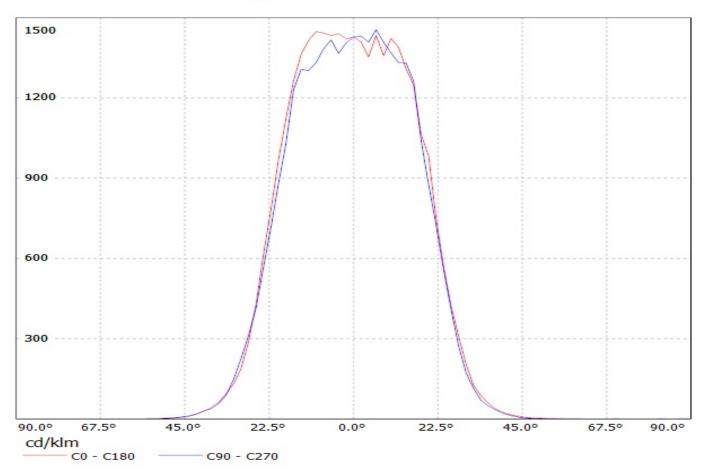




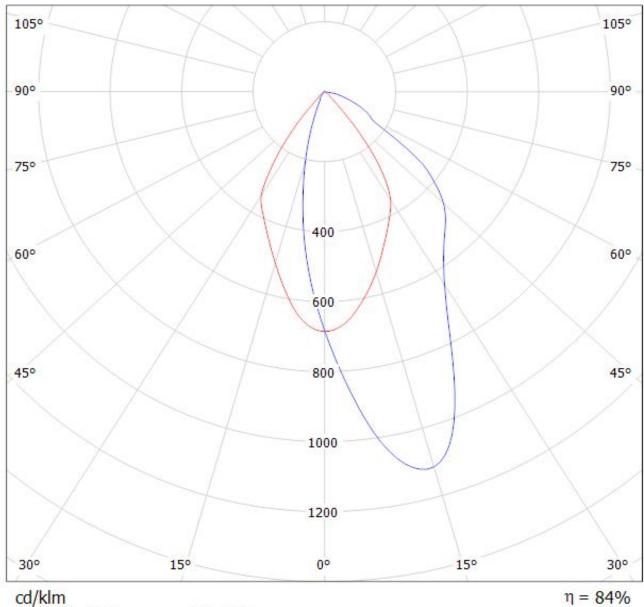


Luminaire: Ledil Oy CN12166_LENA-M-DL (Citizen CL-L340 1393Im @ 250mA) Efficiency=78% Lamps: 1 x Citizen CL-L340 1393Im @ 250mA





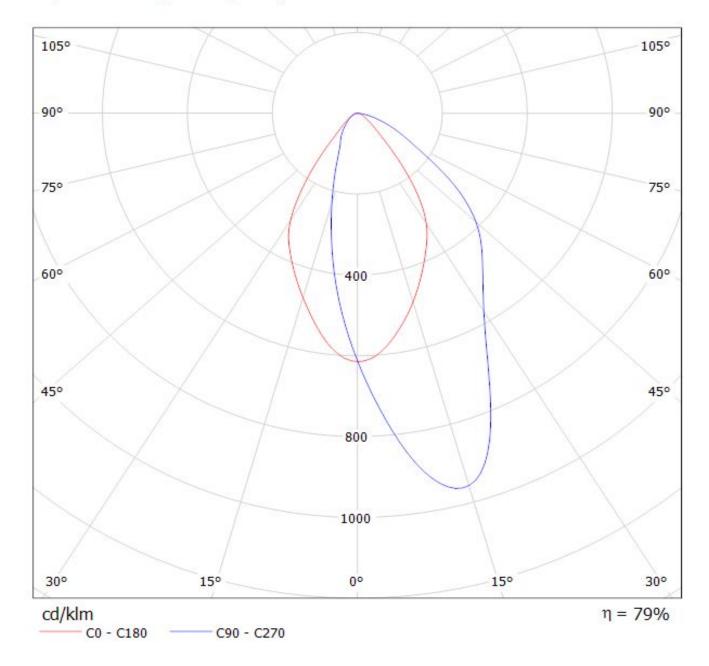
Luminaire: LEDiL Oy CN13158_LENA-WAS_(CL-L340) Eff.83.7% Lamps: 1 x CL-L340 (929.39Im@250mA)



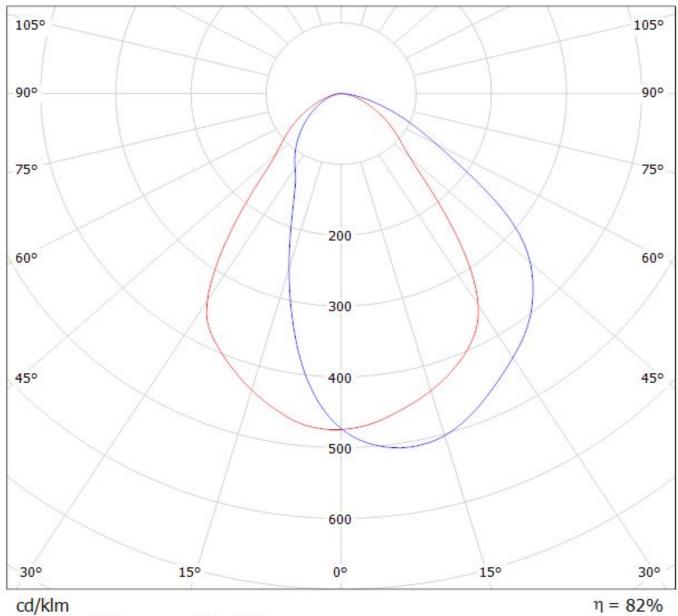


 $\eta = 84\%$

Luminaire: LEDiL Oy CN13168_LENA-WAS-DL_(CL-L340) Eff.79.2% Lamps: 1 x CL-L340 (929.39Im@250mA)

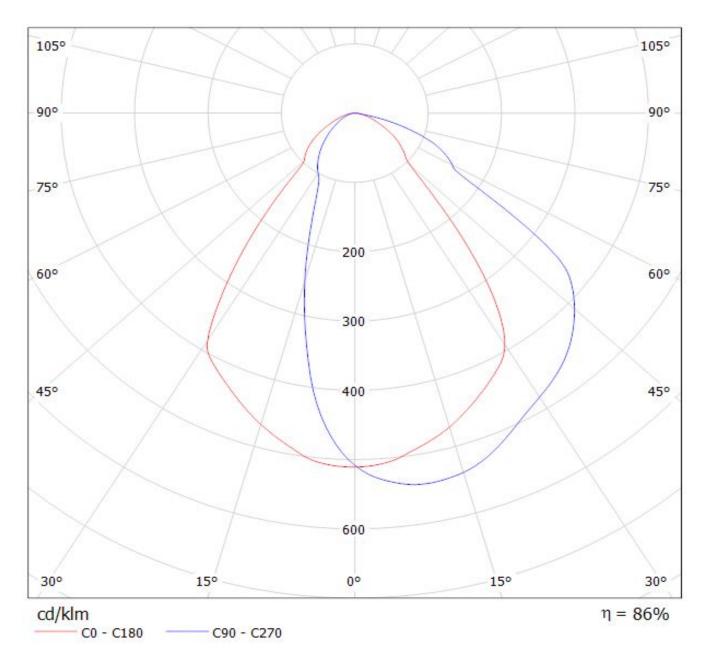


Luminaire: LEDiL Oy CN13373_LENA-X-WAS-DL_(CL-L340) Eff.82.2% Lamps: 1 x CL-L340 (929.39Im@250mA)

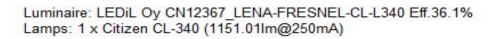


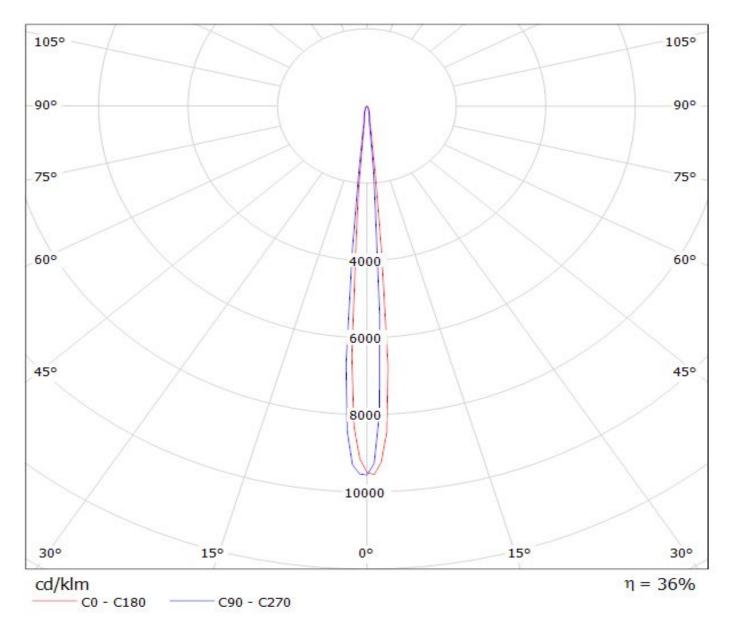
_____C0 - C180 _____C90 - C270

Luminaire: LEDiL Oy CN13374_LENA-X-WAS_(CL-L340) Eff.86.3% Lamps: 1 x CL-L340 (929.39Im@250mA)

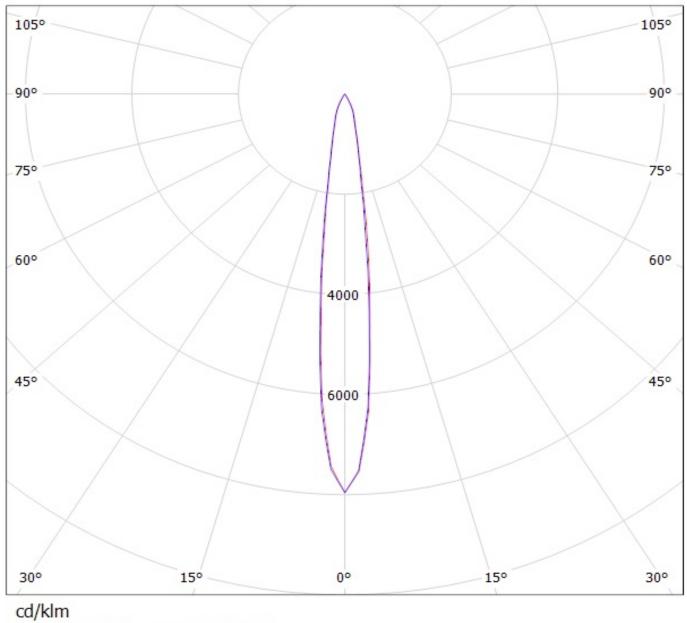


LEDIL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1% / LDC (Polar)



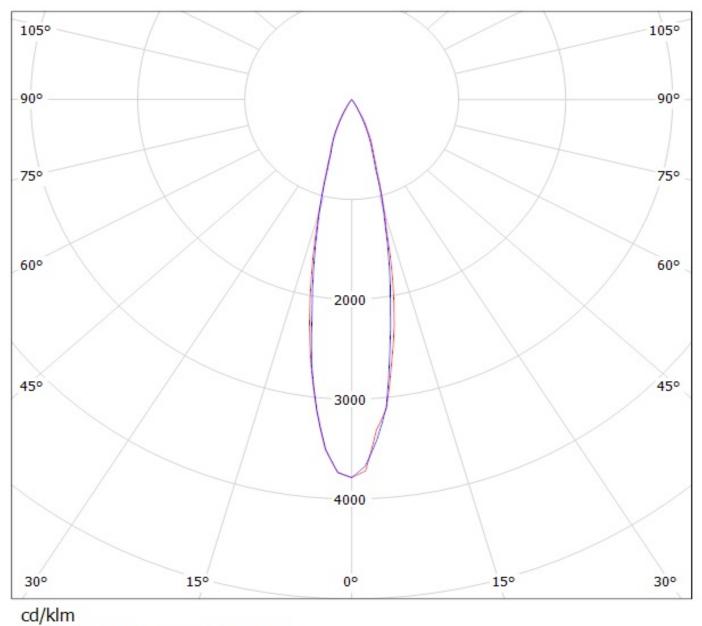


Luminaire: Ledil Oy CN12112_LENA-S-DL (Citizen CL-L340 1393Im @ 250mA) Efficiency=79% Lamps: 1 x Citizen CL-L340 1393Im @ 250mA



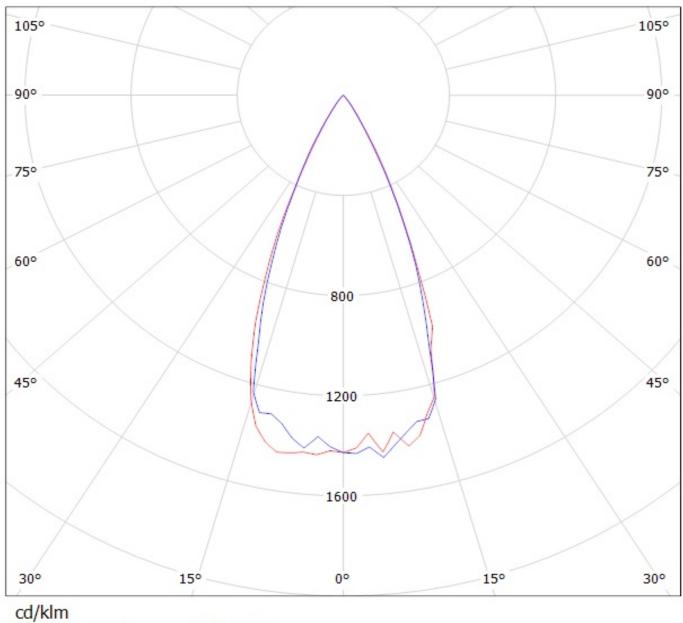
_____ C0 - C180 _____ C90 - C270

Luminaire: Ledil Oy CN12166_LENA-M-DL (Citizen CL-L340 1393Im @ 250mA) Efficiency=78% Lamps: 1 x Citizen CL-L340 1393Im @ 250mA



_____ C0 - C180 _____ C90 - C270

Luminaire: Ledil Oy CN12113_LENA-W-DL (Citizen CL-L340 1393Im @ 250mA) Efficiency=75% Lamps: 1 x Citizen CL-L340 1393Im @ 250mA



C0 - C180 C90 - C270