Avago
20 & 26.5mm
Range



Carclo Technical Plastics
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carclo technical plastics

Avago
Aveon
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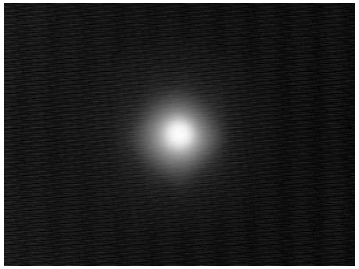
Avago Aveon 20mm range

Part No.	Description	White		
		FWHM#	EFF	Cd/lm
10199	Plain Tight	9.25*9.07	85.9%	19.76
10200	Frosted Narrow	12.98*12.64	83.2%	11.33
10210	Ripple Medium	22.16*21.37	85.9%	5.79
10201	Medium Frosted	21.86*21.67	79.9%	3.98
10211	Ripple Wide	45.21*45.26	83.4%	1.68
10202	Wide Frosted	31.51*31.17	79.0%	2.46
10203	Elliptical	47.99*9.54	83.1%	4.58
10204	Elliptical Orthogonal*	47.45*10.01	81.8%	4.47
10357	wide angle reflector			

***Orthogonal is the elliptical beam turned through 90deg.**
#Full Width Half Maximum i.e. total viewing angle
Base of lens to PCB height is 3.6mm



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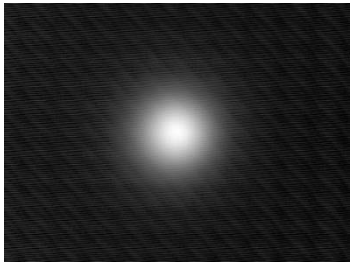

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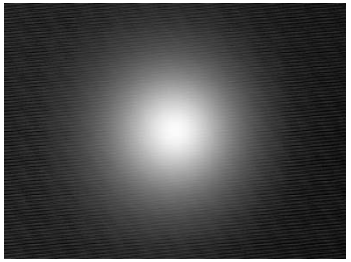

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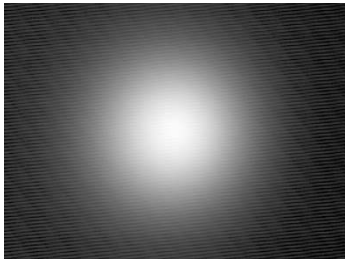

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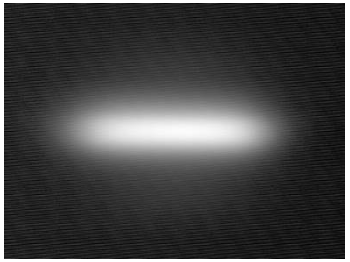

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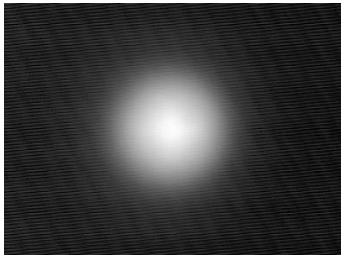

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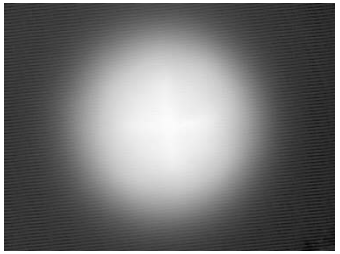


10211

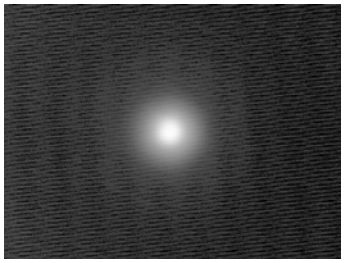
Avago Aveon 26.5mm range

Part No.	Description	White		
		FWHM#	EFF	Cd/lm
10048	Plain Tight	6.91*6.89	84.9%	25.65
10124	Frosted Narrow	11.27*10.94	81.8%	13.79
10108	Medium Frosted	22.32*21.97	78.7%	3.92
10260	Frosted Wide	Optic will not fit LED		
10049	Elliptical	44.01*8.14	80.3%	5.80
10224	Elliptical Orthogonal*	48.25*8.14	80.8%	5.35
10234	Elliptical Ramp Optic	45.61*7.83	80.0%	5.57



Part No.	Colour	Description
10449	White	4.3mm foot (not Stocked)
10459	White	2.0mm foot (Not Stocked)
10469	White	0.8mm foot (Stocked)
10479	Black	4.3mm foot (Not Stocked)
10489	Black	2.0mm foot (Not Stocked)
10499	Black	0.8mm foot (Not Stocked)

*Orthogonal is the elliptical beam turned through 90deg.
Full Width Half Maximum i.e. total viewing angle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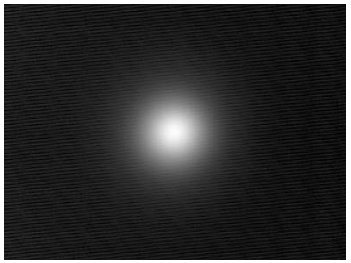
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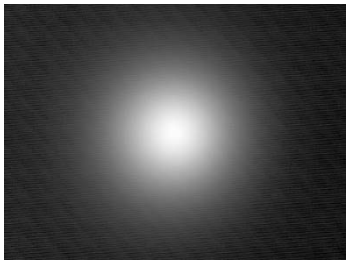
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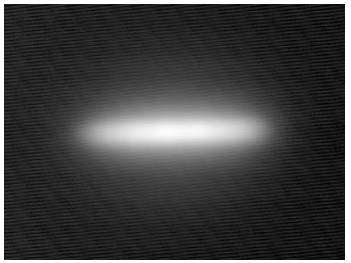
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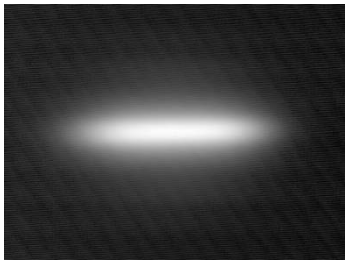
10234

Avago
Jade
20 & 26.5mmRange

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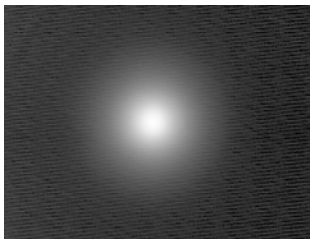
Avago Jade 20mm range

Part No.	Description	White		
		FWHM[#]	EFF	Cd/lm
10003	Plain Tight	11.27*11.25	90.1%	12
10138	Frosted Narrow	16.53*16.80	91.6%	7.59
10003/15	Ripple Medium	20.14*20.54	90.7%	3.92
10139	Medium Frosted	23.22*23.03	87.4%	4.25
10003/25	Ripple Wide	36.33*34.19	85.3%	2.24
10140	Wide Frosted	31.37*31.60	82.2%	2.51
10003/L25	Elliptical	44.14*14.80	89.3%	4.01
10192	Elliptical Orthogonal*	46.94*13.72	90.1%	3.99
10034	wide angle reflector			

***Orthogonal is the elliptical beam turned through 90deg.**
#Full Width Half Maximum i.e. total viewing angle
Base of lens to PCB height is 3.6mm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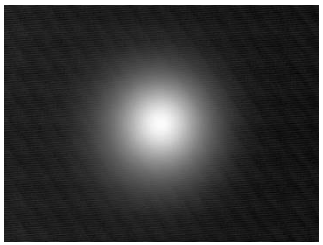
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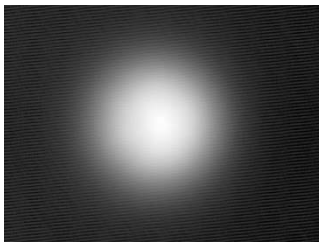
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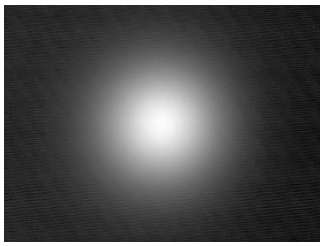
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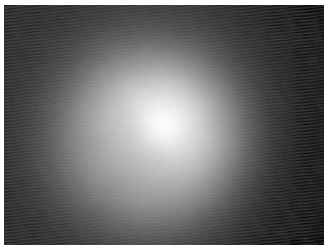
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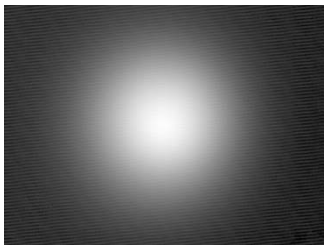
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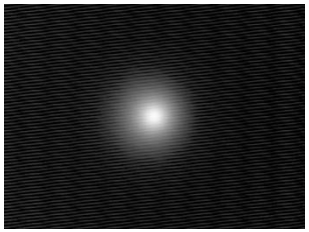
Avago Jade 26.5mm range

Part No.	Description	White		
		FWHM#	EFF	Cd/lm
10048	Plain Tight	8.31*8.14	88.8%	20.07
10124	Frosted Narrow	13.59*13.26	86.6%	11.15
10108	Medium Frosted	23.82*23.78	81.7%	4.01
10260	Frosted Wide	28.15*28.09	82.1%	3.05
10049	Elliptical	43.87*10.94	85.5%	5.40
10224	Elliptical Orthogonal*	47.19*11.25	85.1%	4.60
10234	Elliptical Ramp Optic	45.17*10.94	85.1%	5.30

*Orthogonal is the elliptical beam turned through 90deg.
Full Width Half Maximum i.e. total viewing angle

Part No.	Colour	Description
10441	White	4.3mm foot (not Stocked)
10451	White	2.0mm foot (Not Stocked)
10461	White	0.8mm foot (Stocked)
10471	Black	4.3mm foot (Not Stocked)
10481	Black	2.0mm foot (Not Stocked)
10491	Black	0.8mm foot (Not Stocked)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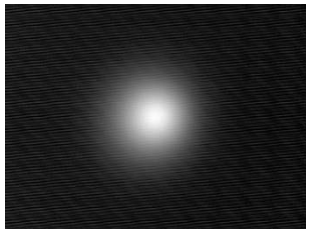
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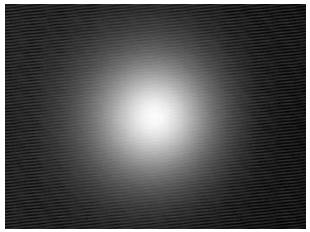
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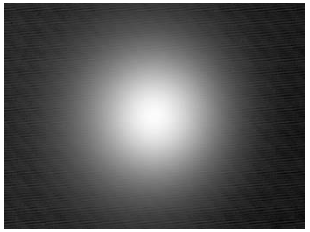
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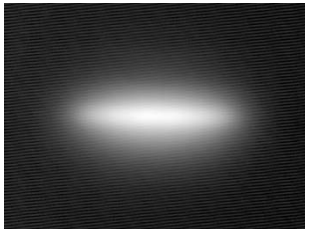
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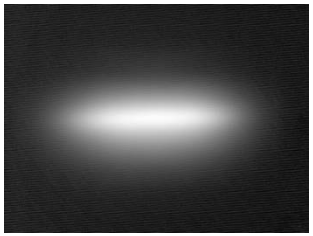
10234

Avago Moonstone 20 & 26.5mmRange



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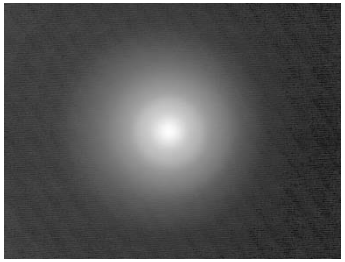
carclo technical plastics

Avago Moonstone 20mm range

Part No.	Description	Warm White		
		FWHM#	EFF	Cd/lm
10199	Plain Tight	11.12*11.09	88.5%	8.19
10200	Frosted Narrow	17.81*17.41	88%	5.31
10210	Ripple Medium	26.46*25.97	87.7%	3.24
10201	Medium Frosted	27.77*27.28	82.8%	2.43
10211	Ripple Wide	46.49*46.02	83.9%	1.24
10202	Wide Frosted	39.32*40.35	80.6%	1.41
10203	Elliptical	45.97*17.33	85.7%	2.66
10204	Elliptical Orthogonal*	45.23*20.03	84.5%	2.29
10357	wide angle reflector			



***Orthogonal is the elliptical beam turned through 90deg.**
#Full Width Half Maximum i.e. total viewing angle
Base of lens to PCB height is 3.6mm



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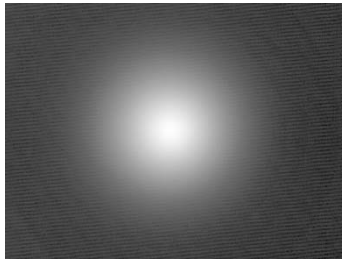

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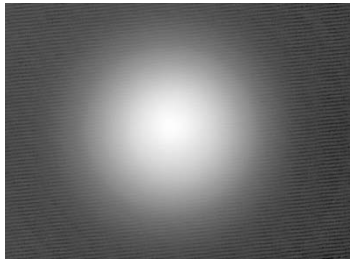

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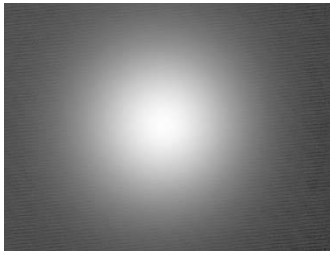

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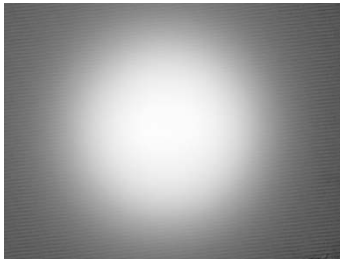

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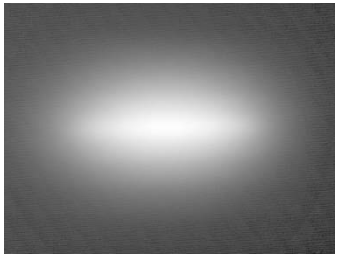

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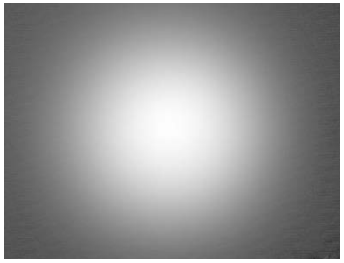


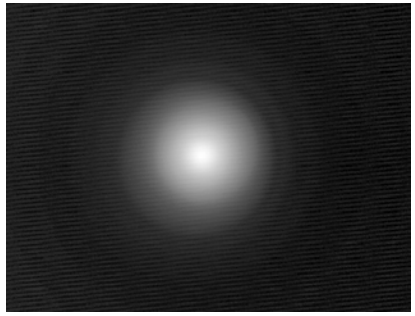
10202

Avago Moonstone 26.5mm range

Part No.	Description	Warm White		
		FWHM#	EFF	Cd/lm
10391	Plain Tight	12	87.2%	10.50
10392	Frosted Narrow	17.2	83.1%	6.00
10393	Medium Frosted	25.5	78.5%	2.76
10394	Frosted Wide			
10395	Elliptical	44*16	83.1%	2.99

Results for white LED

WHITE HOLDERS			BLACK HOLDERS		
4.3 PEG Not Stocked	2.0 PEG Not stocked	0.8 PEG Stocked	4.3 PEG Not Stocked	2.0 PEG Not Stocked	0.8 PEG Not Stocked
10449	10459	10469	10479	10489	10499



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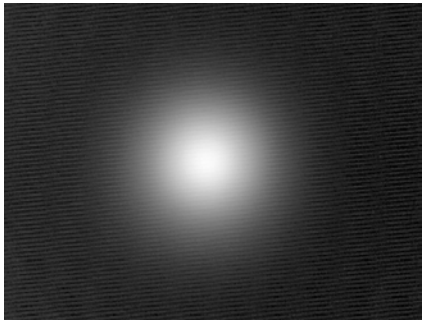

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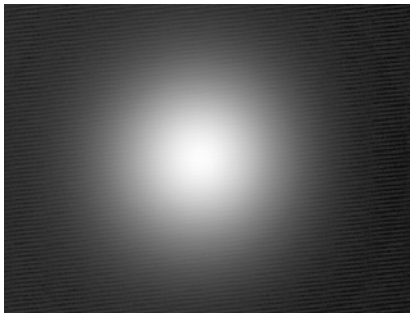

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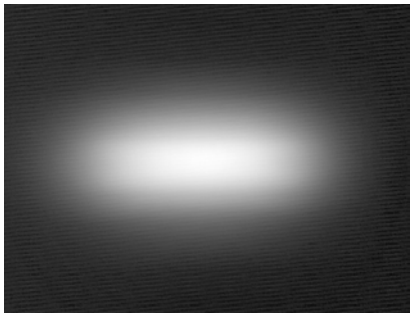
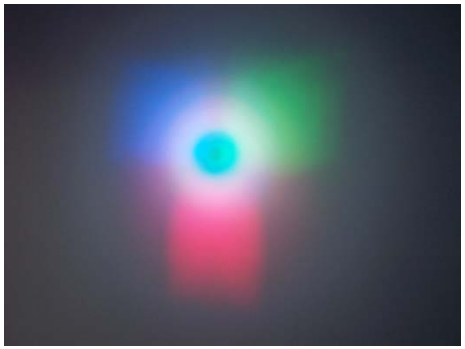


10395

Avago RGB Moonstone 20mm range

Part No.	Description	White		
		FWHM[#]	EFF	Cd/lm
10199	Plain Tight	13.10*13.54	86.2%	12.17
10200	Frosted Narrow	17.81*17.41	85.1%	6.71
10201	Medium Frosted	25.43*25.96	81.0%	2.73
10202	Wide Frosted	38.02*38.09	76.7%	1.38

***Orthogonal is the elliptical beam turned through 90deg.**
#Full Width Half Maximum i.e. total viewing angle
Base of lens to PCB height is 3.6mm



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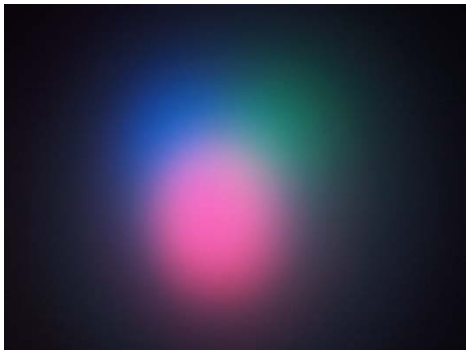

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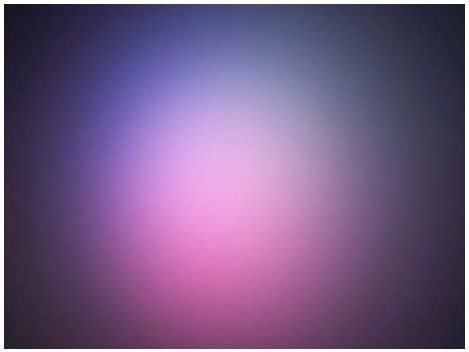


10201



10202

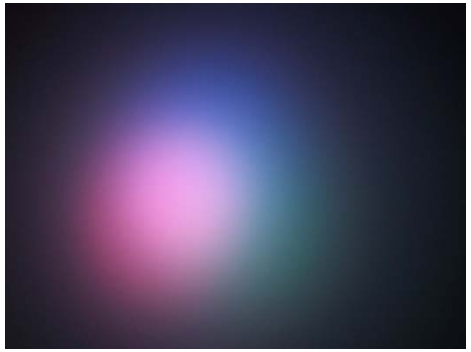
Avago RGB Moonstone 26.5mm range

Part No.	Description	Warm White		
		FWHM[#]	EFF	Cd/lm
10391	Plain Tight	12.2	87.2%	13
10392	Frosted Narrow	15.9	88%	6.30
10393	Medium Frosted	26.5	81%	2.4
10394	Frosted Wide	29.1	84.7%	2.2
10395	Elliptical			

WHITE HOLDERS			BLACK HOLDERS		
4.3 PEG Not Stocked	2.0 PEG Not stocked	0.8 PEG Stocked	4.3 PEG Not Stocked	2.0 PEG Not Stocked	0.8 PEG Not Stocked
10449	10459	10469	10479	10489	10499



10391



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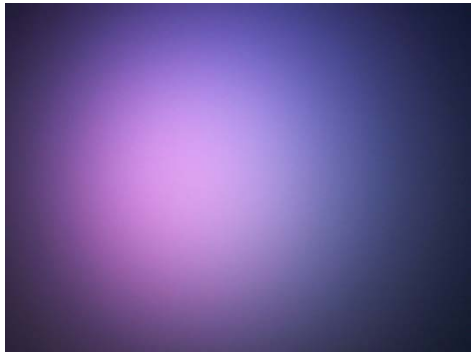


10393



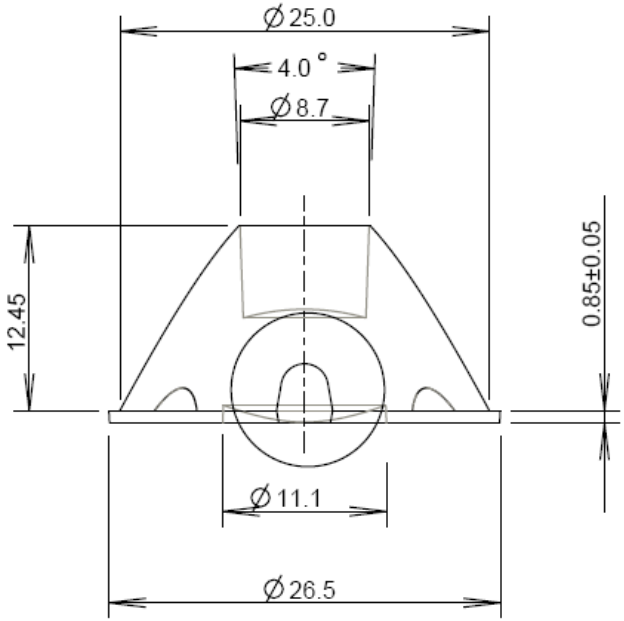
10394

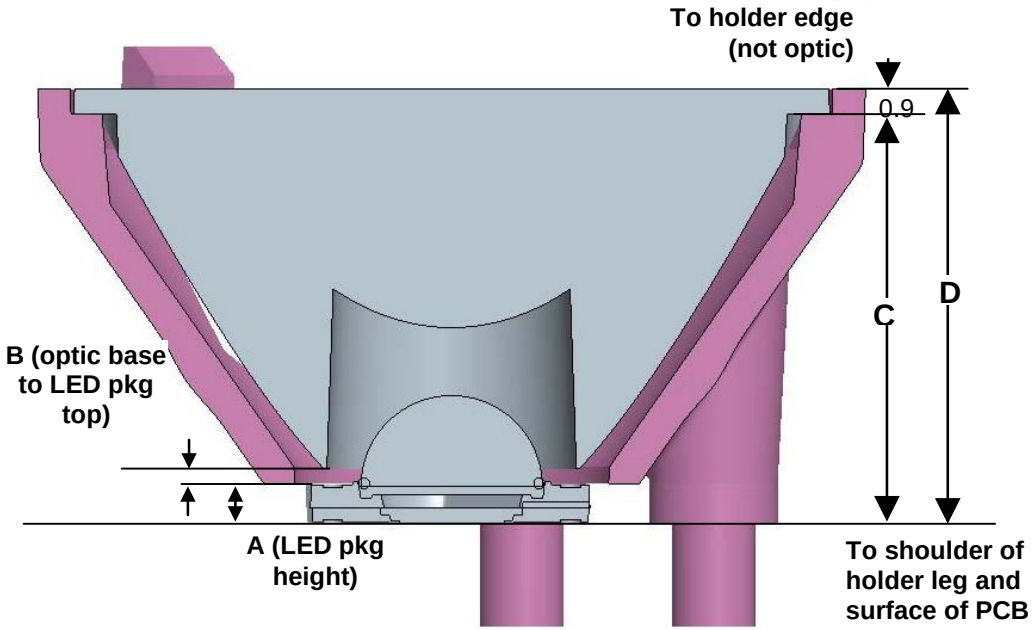
26.5mm OPTIC

Part No.	TYPE
10391	Plain Tight
10392	Narrow Frosted
10393	Medium Frosted
10394	Wide Frosted
10395	Elliptical
10396	Elliptical Ortho









Notes:

1. CARCLO multi-chip holder compatible with LED package mounted on 19.9mm (across flats) star board, otherwise drill holes on PCB for location pegs on legs. Refer to Drawing 60475 for hole separation
2. The multichip holder leg height includes an extra 1.0mm for the AcuLED since only a 13mm (across flats) star board is available. The CARCLO holder reaches over the AcuLED star board so that the holder sits directly on the PCB (and not the star board).

26.5mm Holder location holes

ISS.	DATE	E.C.N.	DESCRIPTION
3	06-08-08		EXTRA LEGS ADDED TO TABLE

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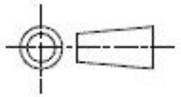
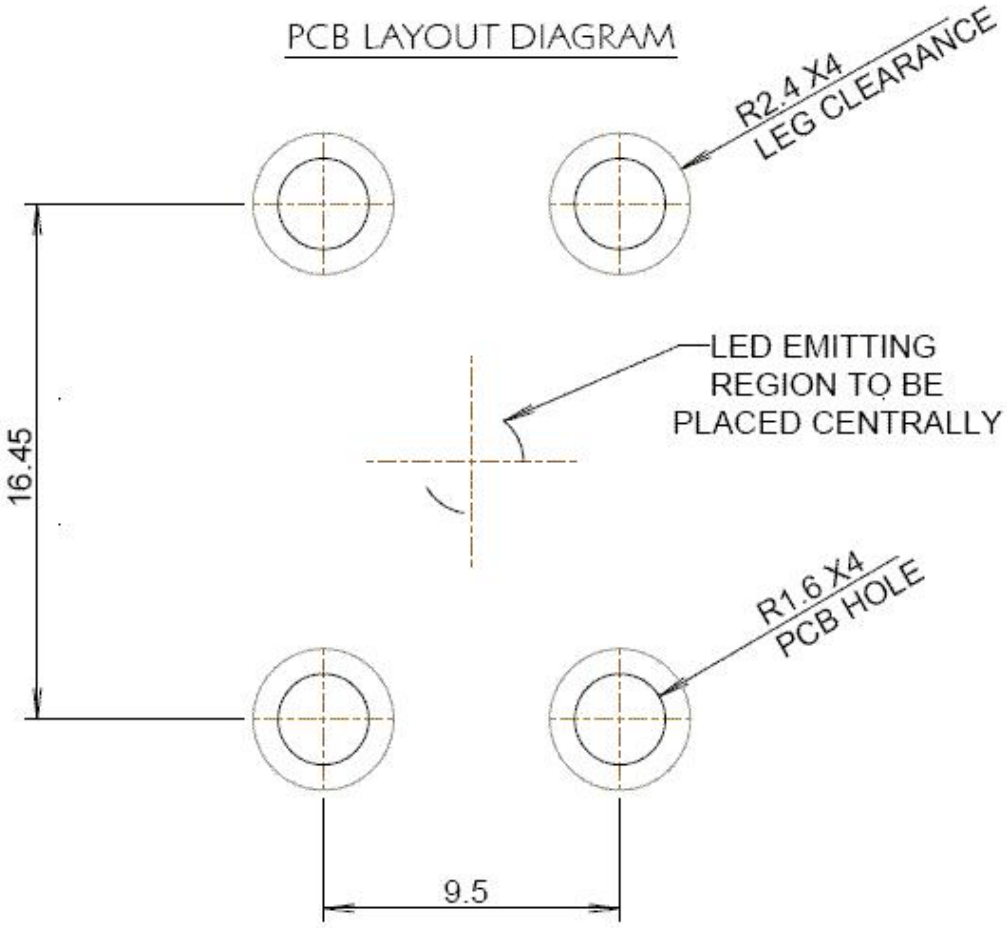
ALL DIMENSIONS IN mm



PCB LAYOUT DIAGRAM



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GENERAL TOLERANCES (UNLESS STATED)

LINEAR		ANGULAR	
X	+/- 0.25	X	+/- 1°
X.X	+/- 0.1	X.X	+/- 0.5°
X.XX	+/- 0.05	X.XX	+/- 0.1°

CUSTOMER: CARCLO

TITLE: 26.5MM DIA OPTIC 4 LEG HOLDER

DRAWN	AJD	DATE	05-June-07
CHK'D		DATE	
APP'D		DATE	

SCALE	CARCLO PART No.
5:1	SEE TABLE

SIZE	CARCLO DRG. No.	SHEET
A4	60475	3 OF 3