

SUMMARY

Test Condition: 15V 60Hz for SL17

Criteria	Result
Total Lumen Output (lm)	22.5187
Total Power(W)	1.1218
Lamp Luminaire Efficacy (lm/W)	20.07
Power Factor	0.6406
Field Angle (°)	123.4
Correlated Color Temperature (CCT)	3121
Color Rendering Index (CRI)	96
Color Rendering Index (R ₉)	90
Fidelity Index (R _f)	95
Gamut Index (R _g)	99
Chromaticity Coordinate (x)	0.4331
Chromaticity Coordinate (y)	0.4108
Chromaticity Coordinate (u')	0.2452
Chromaticity Coordinate (v')	0.5234
In-situ Case Temperature of LED/COB (°C)	35.8
Drive Current of LED/COB (mA)	100
Projection Life Time, Reported L70 (hours)	>54000

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RESULTS OF TESTS

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Total operation burning time: 70 min

Stabilization time: 60 min

Photometric Measurements at 25°C

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	CIE 31' Chromaticity Coordinate (x)	CIE 31' Chromaticity Coordinate (y)	CIE 76' Chromaticity Coordinate (u')	CIE 76' Chromaticity Coordinate (v')
SL17							
A240906-22-001	N/A	3121	96	0.4331	0.4108	0.2452	0.5234

Photometric and Electrical Measurements at 25°C

Intertek Sample No.	Base Orientation	Input Voltage (Vac)	Input Current (A)	Lamp Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
SL17							
A240906-22-001	N/A	15.0	0.1165	1.1218	0.6406	22.5187	20.07

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SL17		
0-30	0.9534	4.23
0-40	2.284	10.1
0-60	7.492	33.3
0-90	20.51	91.1
0-180	22.52	100.0

Beam Angle

	Horizontal Spread (°)	Vertical Spread (°)
SL17		
Beam (50%)	157.3	59.3
Beam Angle	108.3	

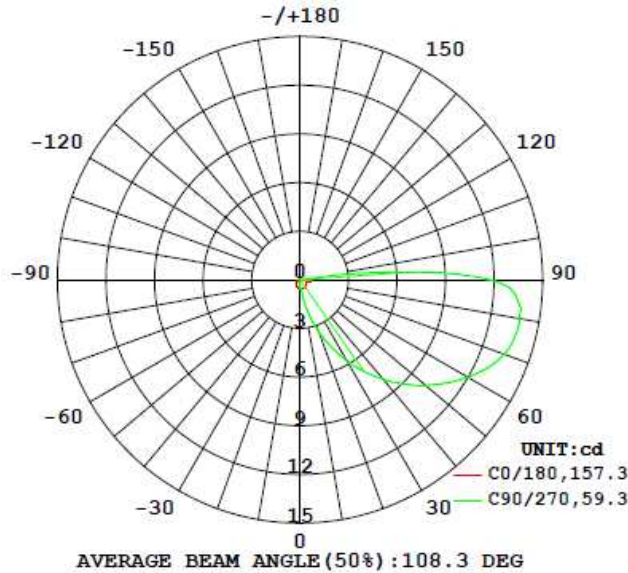
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RESULTS OF TESTS (cont'd)

Intensity (Candlepower) Summary at 25°C – Candelas

Test Condition: 15V 60Hz for SL17

G \ C(°)	0	22.5	45	67.5	90
0	0.541	0.541	0.541	0.541	0.541
5	0.546	0.568	0.586	0.598	0.600
10	0.549	0.592	0.674	1.026	1.141
15	0.548	0.615	1.463	2.116	2.293
20	0.545	0.947	2.309	3.176	3.422
25	0.539	1.460	3.136	4.239	4.559
30	0.530	1.947	3.952	5.297	5.742
35	0.516	2.409	4.756	6.418	6.897
40	0.499	2.857	5.572	7.470	8.009
45	0.479	3.292	6.409	8.481	9.081
50	0.455	3.706	7.159	9.440	10.110
55	0.425	4.111	7.879	10.359	11.080
60	0.391	4.495	8.549	11.234	12.001
65	0.390	4.855	9.203	12.015	12.802
70	0.475	5.178	9.821	12.617	13.433
75	0.559	5.533	10.293	12.927	13.733
80	0.613	5.974	10.348	12.954	13.773
85	0.643	5.917	10.024	12.696	13.470
90	0.648	5.357	9.162	11.328	11.782



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RESULTS OF TESTS (cont'd)

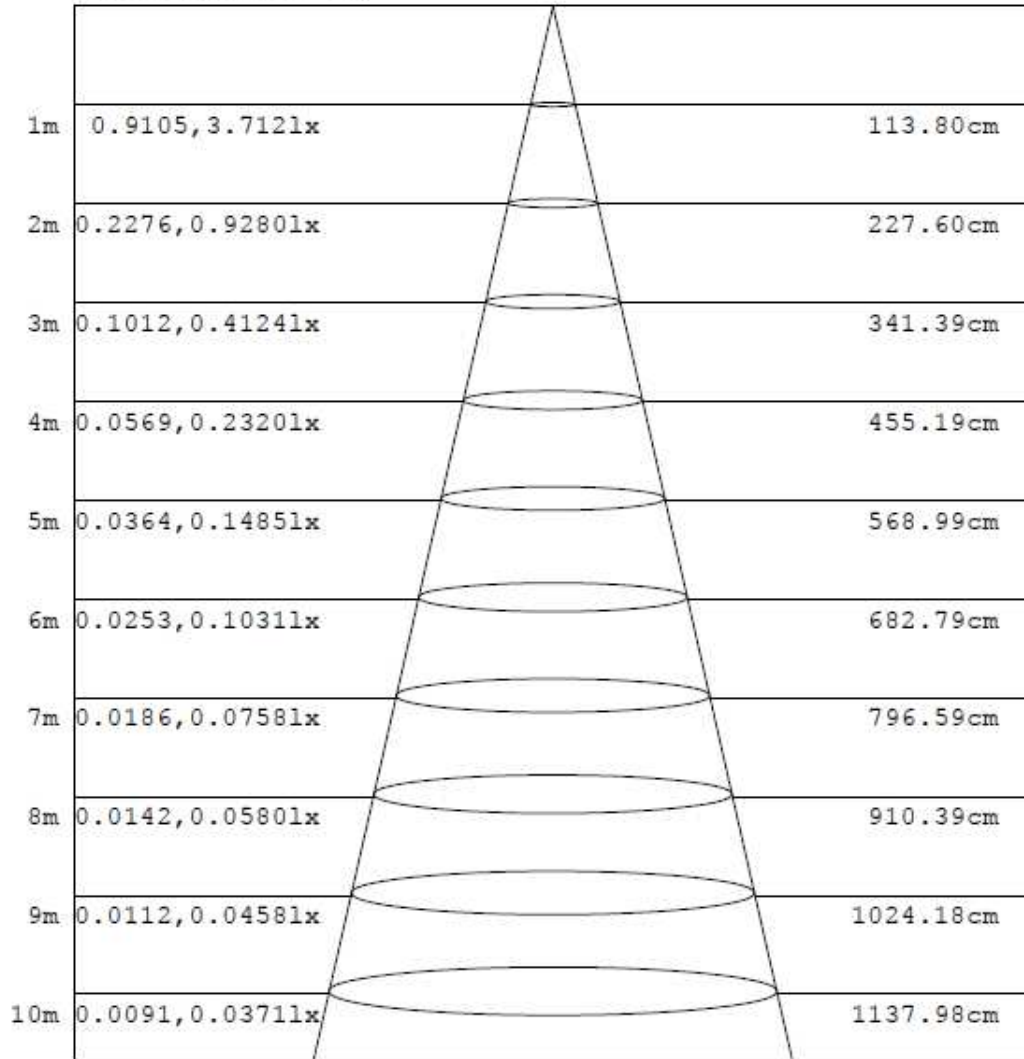
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Illumination Plots

Model No.: SL17
Mount Height: 10 m

Illuminance - Cone of Light

Flux out: 0.9534 lm



Height Eavg, Emax Angle: 59.28deg Diameter

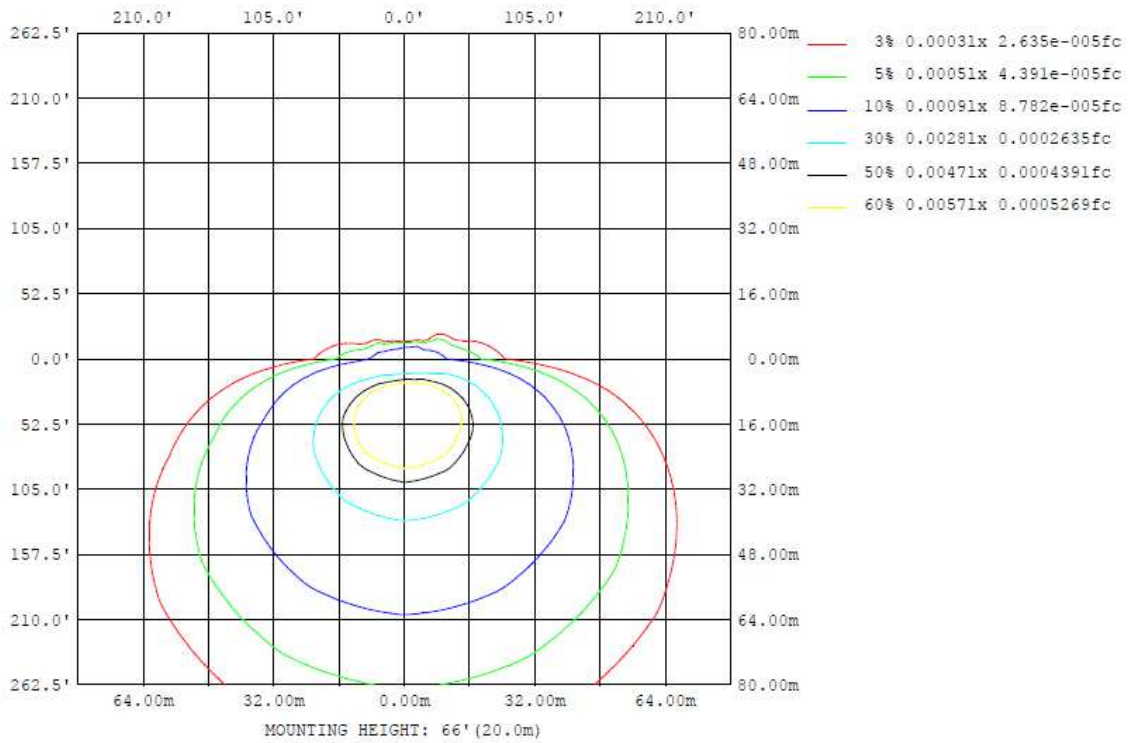
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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RESULTS OF TESTS (cont'd)

Test Condition: 15V 60Hz for SL17

Model No.: SL17
Mount Height: 20 m
Isoillumination Plot



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RESULTS OF TESTS (cont'd)

Test Condition: 15V 60Hz for SL17

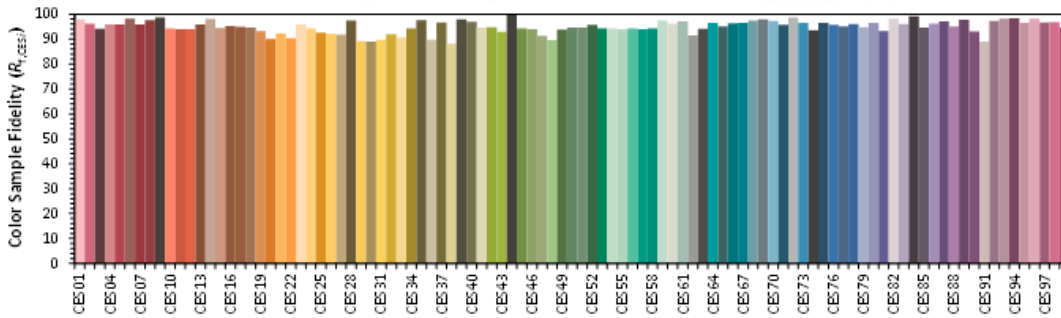
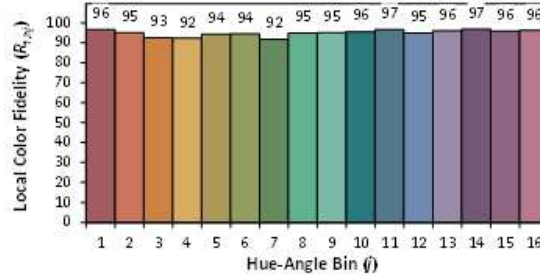
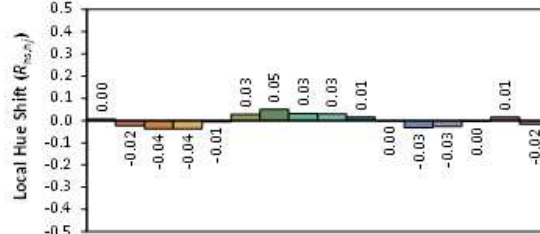
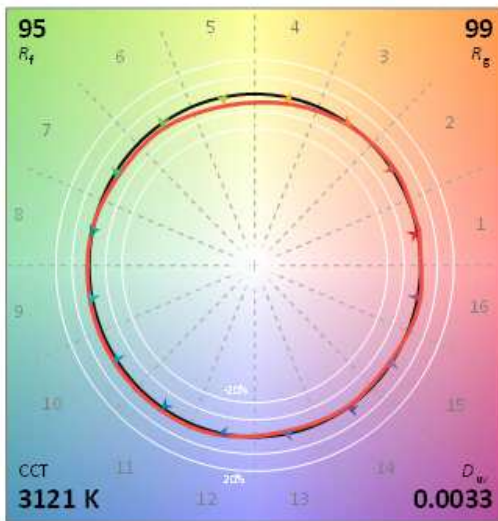
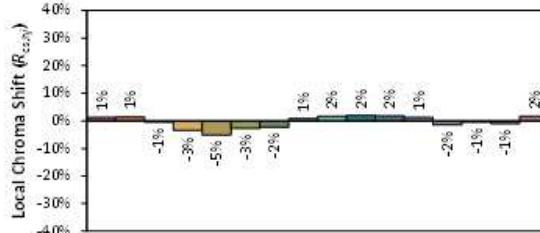
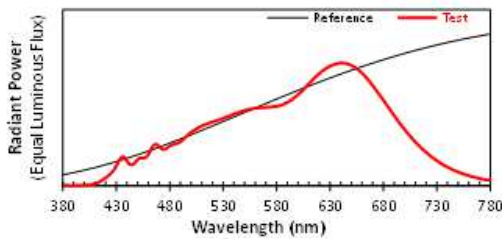
ANSI/IES TM-30-18 Color Rendition Report

Source: LED

Manufacturer: Hengdian Group

Date: 3/8/2023

Model: TP-G2-DOBUHB-240-5000K



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4331
y 0.4108
u' 0.2452
v' 0.5234

CIE 13.3-1995
(CRI)
R_a 96
R_g 90

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