

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P772670

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959040-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11747.3 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

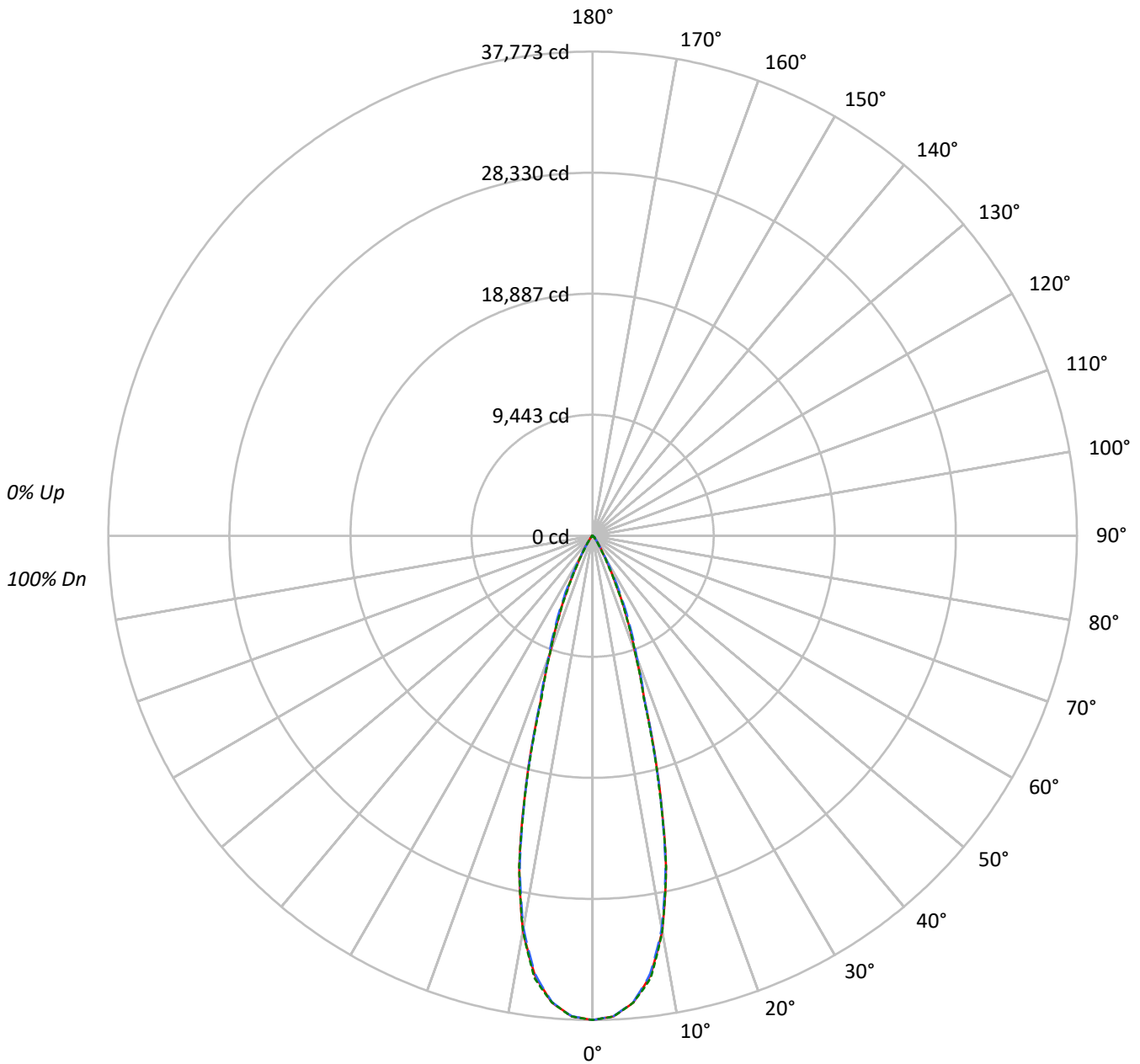
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2891297	2891297	2891297
5°	2808294	2805013	2808432
10°	2432410	2415256	2431835
15°	1587027	1578500	1570568
20°	789152	818761	788093
25°	397519	448269	389377
30°	159163	173420	138667
35°	73819	70708	59270
40°	31875	35392	30016
45°	22483	27907	22689
50°	7728	20315	8169
55°	4457	8421	4697
60°	3123	3689	3123
65°	2010	2010	2010
70°	1253	828	1253
75°	0	562	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 27907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3321.6	28.3
10°-20°	5349.4	45.5
20°-30°	2311.6	19.7
30°-40°	526.9	4.5
40°-50°	180.9	1.5
50°-60°	44.2	0.4
60°-70°	11.4	0.1
70°-80°	1.2	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10982.7	93.5
0°-40°	11509.5	98.0
0°-60°	11734.6	99.9
0°-90°	11747.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11747.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	37773	37773	37773	37773	37773	
5°	36549	36514	36507	36583	36551	3324
15°	20027	19786	19920	19855	19820	5363
25°	4707	4885	5308	4761	4610	2253
35°	790	807	757	751	634	536
45°	208	258	258	258	210	147
55°	33	35	63	37	35	33
65°	11	11	11	11	11	11
75°	0	0	2	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	37773.3	37773.3	37773.3	37773.3	37773.3
2.5°	37522.9	37497.0	37511.8	37530.3	37537.8
5°	36549.3	36514.0	36506.6	36582.7	36551.1
7.5°	34585.3	34535.3	34459.2	34631.7	34793.0
10°	31295.4	31239.7	31074.7	31156.3	31288.0
12.5°	26438.3	26258.4	26254.7	26514.4	26479.1
15°	20027.2	19786.1	19919.6	19854.7	19819.5
17.5°	13467.7	13374.9	13553.0	13499.2	13267.4
20°	9688.1	9712.2	10051.6	9881.0	9675.1
22.5°	7069.5	7156.7	7559.1	7119.6	6958.2
25°	4706.8	4884.9	5307.7	4760.6	4610.4
27.5°	2894.9	2976.5	3404.9	2857.8	2776.2
30°	1800.8	1760.0	1962.1	1683.9	1568.9
32.5°	1181.3	1129.4	1194.3	1071.9	979.2
35°	790.0	806.7	756.7	751.1	634.3
37.5°	493.3	567.5	500.7	534.1	408.0
40°	319.0	411.7	354.2	391.3	300.4
42.5°	261.5	317.1	291.2	309.7	267.1
45°	207.7	257.8	257.8	257.8	209.6
47.5°	115.0	172.5	220.7	176.2	122.4
50°	64.9	87.2	170.6	90.9	68.6
52.5°	44.5	50.1	116.8	51.9	46.4
55°	33.4	35.2	63.1	37.1	35.2
57.5°	26.0	27.8	33.4	27.8	26.0
60°	20.4	20.4	24.1	22.3	20.4
62.5°	14.8	14.8	16.7	14.8	14.8
65°	11.1	11.1	11.1	11.1	11.1
67.5°	5.6	7.4	7.4	7.4	7.4
70°	5.6	3.7	3.7	3.7	5.6
72.5°	3.7	1.9	1.9	1.9	1.9
75°	0.0	0.0	1.9	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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