

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: P772626

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772626
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-EU6DR3070959027-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9753.2 lumens
Efficiency: N/A
Efficacy: 111.2 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

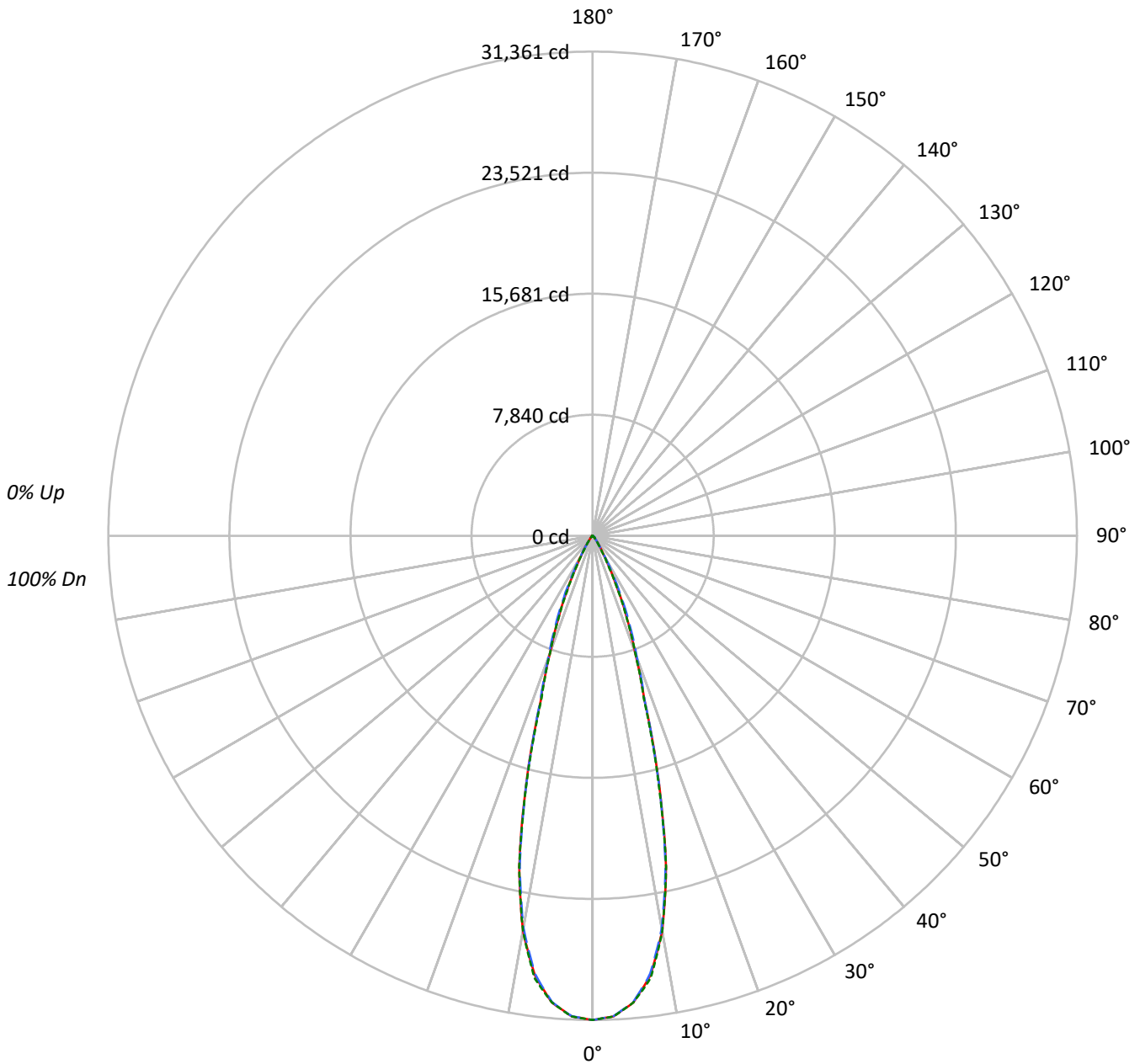


Downlight

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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	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°	2400500	2400500	2400500
5°	2331589	2328869	2331712
10°	2019508	2005269	2019034
15°	1317630	1310554	1303969
20°	655198	679781	654318
25°	330047	372174	323282
30°	132144	143979	115130
35°	61289	58700	49207
40°	26459	29387	24920
45°	18673	23165	18835
50°	6418	16874	6788
55°	3697	6993	3910
60°	2587	3062	2587
65°	1666	1666	1666
70°	1029	694	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2757.8	28.3
10°-20°	4441.4	45.5
20°-30°	1919.2	19.7
30°-40°	437.4	4.5
40°-50°	150.2	1.5
50°-60°	36.7	0.4
60°-70°	9.5	0.1
70°-80°	1.0	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°	9118.4	93.5
0°-40°	9555.8	98.0
0°-60°	9742.7	99.9
0°-90°	9753.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9753.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31361	31361	31361	31361	31361	
5°	30345	30316	30310	30373	30347	2760
15°	16628	16427	16538	16484	16455	4452
25°	3908	4056	4407	3952	3828	1871
35°	656	670	628	624	527	445
45°	172	214	214	214	174	122
55°	28	29	52	31	29	27
65°	9	9	9	9	9	9
75°	0	0	2	0	0	1
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°	31361.3	31361.3	31361.3	31361.3	31361.3
2.5°	31153.5	31131.9	31144.2	31159.6	31165.8
5°	30345.1	30315.9	30309.7	30372.8	30346.7
7.5°	28714.5	28673.0	28609.8	28753.0	28887.0
10°	25983.0	25936.9	25799.8	25867.6	25976.9
12.5°	21950.5	21801.1	21798.0	22013.6	21984.4
15°	16627.6	16427.4	16538.3	16484.4	16455.2
17.5°	11181.6	11104.6	11252.4	11207.7	11015.3
20°	8043.6	8063.6	8345.4	8203.7	8032.8
22.5°	5869.5	5941.8	6276.0	5911.0	5777.1
25°	3907.9	4055.7	4406.7	3952.5	3827.8
27.5°	2403.5	2471.3	2827.0	2372.7	2305.0
30°	1495.1	1461.2	1629.0	1398.1	1302.6
32.5°	980.8	937.7	991.6	890.0	813.0
35°	655.9	669.8	628.2	623.6	526.6
37.5°	409.6	471.2	415.7	443.4	338.7
40°	264.8	341.8	294.1	324.9	249.4
42.5°	217.1	263.3	241.7	257.1	221.7
45°	172.5	214.0	214.0	214.0	174.0
47.5°	95.5	143.2	183.2	146.3	101.6
50°	53.9	72.4	141.7	75.4	57.0
52.5°	37.0	41.6	97.0	43.1	38.5
55°	27.7	29.3	52.4	30.8	29.3
57.5°	21.6	23.1	27.7	23.1	21.6
60°	16.9	16.9	20.0	18.5	16.9
62.5°	12.3	12.3	13.9	12.3	12.3
65°	9.2	9.2	9.2	9.2	9.2
67.5°	4.6	6.2	6.2	6.2	6.2
70°	4.6	3.1	3.1	3.1	4.6
72.5°	3.1	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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