

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: P772618

Luminaire Tested: LD6D85BD010-EU6DR3070959024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772618
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-EU6DR3070959024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9516.3 lumens
Efficiency: N/A
Efficacy: 108.5 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

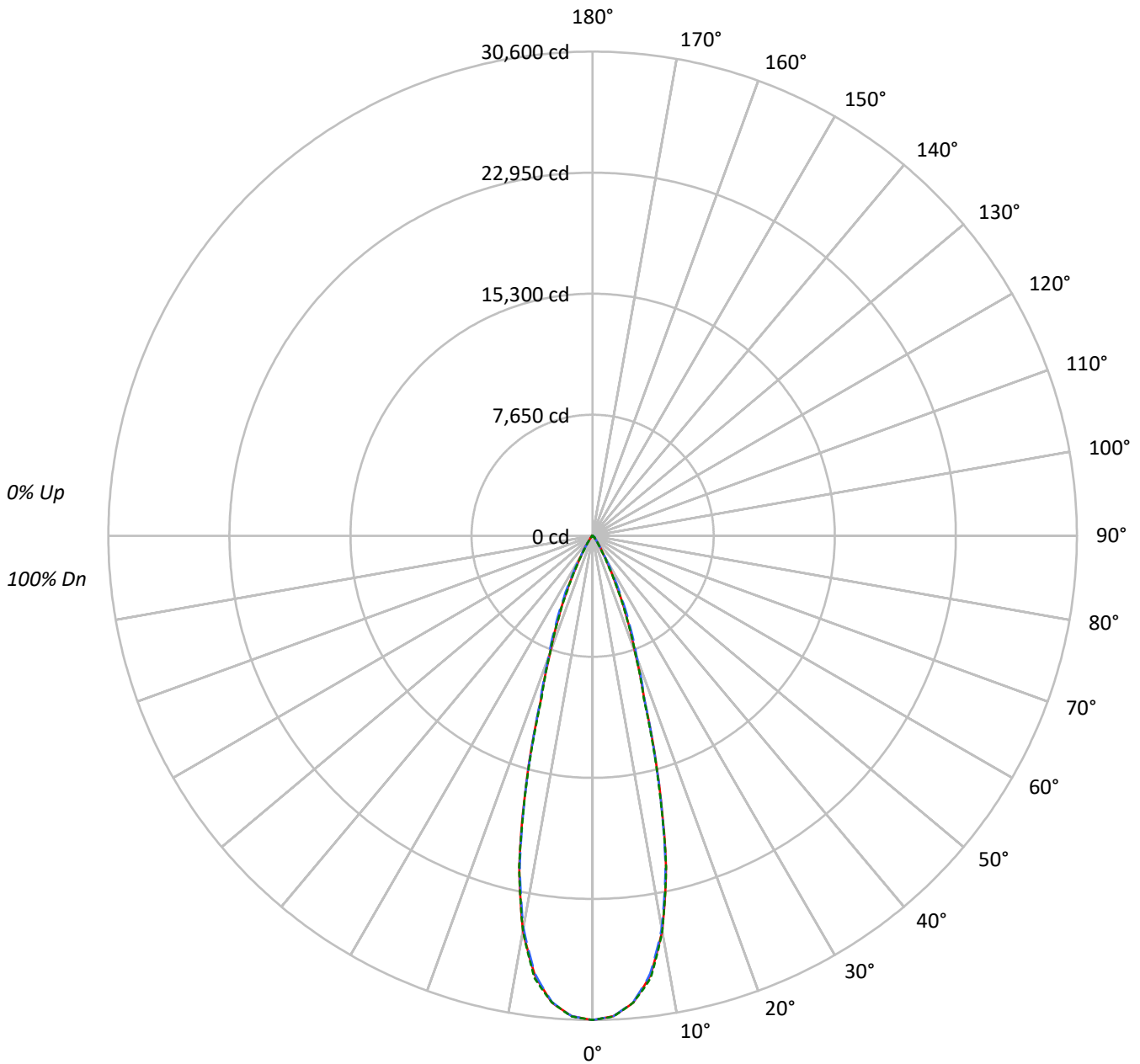
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2342190	2342190	2342190
5°	2274954	2272295	2275069
10°	1970456	1956559	1969990
15°	1285624	1278722	1272287
20°	639281	663262	638426
25°	322023	363137	315427
30°	128936	140487	112337
35°	59803	57280	48011
40°	25819	28667	24321
45°	18218	22602	18381
50°	6264	16457	6621
55°	3603	6819	3803
60°	2526	2985	2526
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2690.8	28.3
10°-20°	4333.5	45.5
20°-30°	1872.6	19.7
30°-40°	426.8	4.5
40°-50°	146.5	1.5
50°-60°	35.8	0.4
60°-70°	9.3	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°	8896.9	93.5
0°-40°	9323.7	98.0
0°-60°	9506.0	99.9
0°-90°	9516.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9516.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30600	30600	30600	30600	30600	
5°	29608	29579	29573	29635	29610	2693
15°	16224	16028	16137	16084	16055	4344
25°	3813	3957	4300	3856	3735	1825
35°	640	654	613	608	514	434
45°	168	209	209	209	170	119
55°	27	28	51	30	28	26
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°	30599.5	30599.5	30599.5	30599.5	30599.5
2.5°	30396.7	30375.7	30387.7	30402.7	30408.7
5°	29608.0	29579.4	29573.4	29635.0	29609.5
7.5°	28017.0	27976.5	27914.9	28054.6	28185.3
10°	25351.9	25306.8	25173.1	25239.2	25345.9
12.5°	21417.3	21271.5	21268.5	21478.9	21450.3
15°	16223.7	16028.4	16136.6	16084.0	16055.4
17.5°	10909.9	10834.8	10979.1	10935.5	10747.7
20°	7848.2	7867.7	8142.6	8004.4	7837.7
22.5°	5726.9	5797.5	6123.5	5767.5	5636.8
25°	3812.9	3957.1	4299.7	3856.5	3734.8
27.5°	2345.1	2411.2	2758.3	2315.1	2249.0
30°	1458.8	1425.7	1589.5	1364.1	1271.0
32.5°	957.0	914.9	967.5	868.3	793.2
35°	640.0	653.5	613.0	608.4	513.8
37.5°	399.6	459.7	405.6	432.7	330.5
40°	258.4	333.5	286.9	317.0	243.4
42.5°	211.8	256.9	235.9	250.9	216.3
45°	168.3	208.8	208.8	208.8	169.8
47.5°	93.1	139.7	178.8	142.7	99.2
50°	52.6	70.6	138.2	73.6	55.6
52.5°	36.1	40.6	94.6	42.1	37.6
55°	27.0	28.5	51.1	30.0	28.5
57.5°	21.0	22.5	27.0	22.5	21.0
60°	16.5	16.5	19.5	18.0	16.5
62.5°	12.0	12.0	13.5	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	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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