

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



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: P754602

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR3070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 8787.4 lumens
Efficiency: N/A
Efficacy: 100.2 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

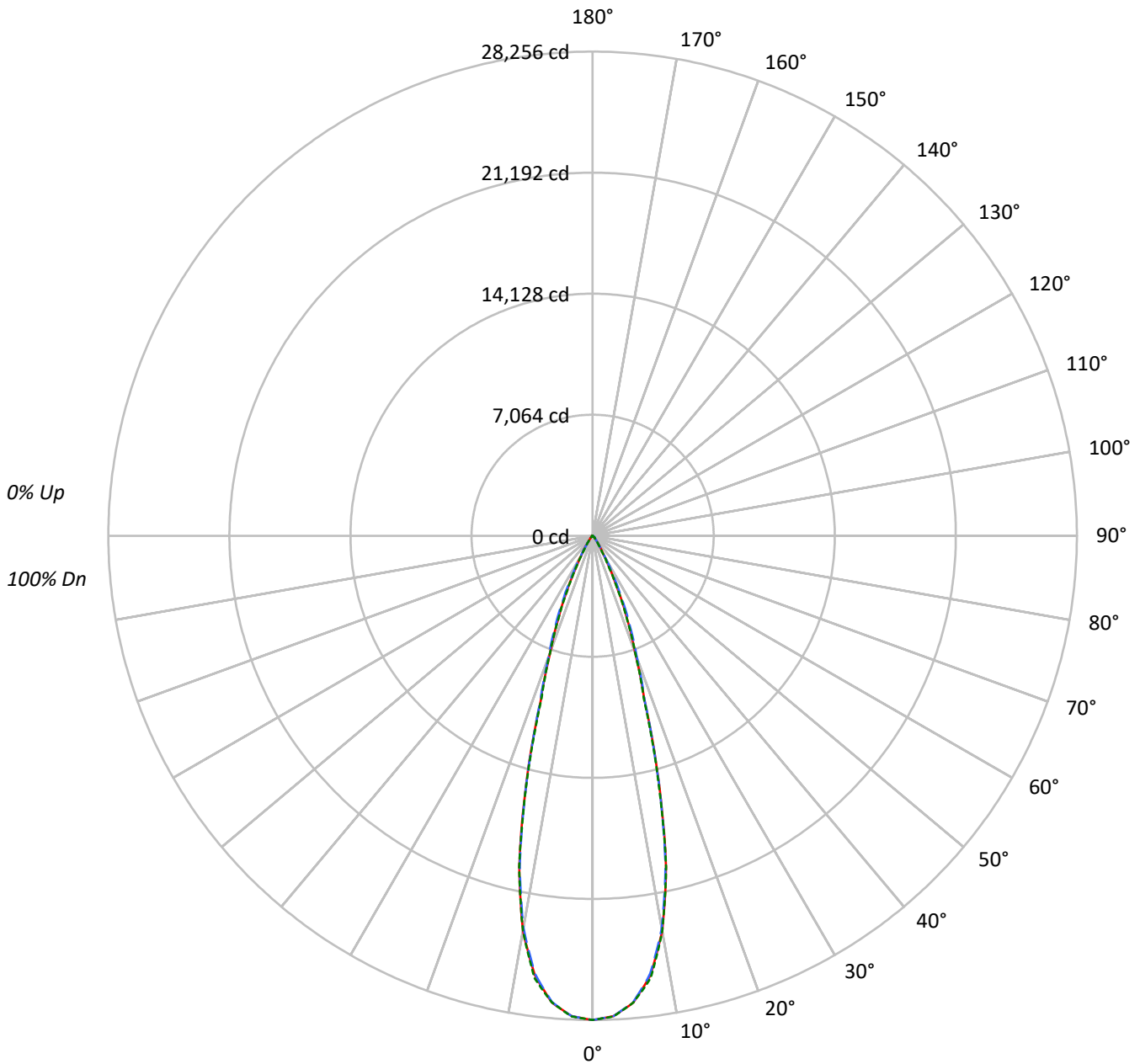
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2162780	2162780	2162780
5°	2100690	2098239	2100798
10°	1819516	1806684	1819088
15°	1187148	1180769	1174833
20°	590310	612458	589520
25°	297362	335317	291264
30°	119054	129722	103728
35°	55224	52888	44329
40°	23841	26479	22452
45°	16822	20870	16973
50°	5787	15195	6109
55°	3336	6299	3523
60°	2342	2756	2342
65°	1503	1503	1503
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20870 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2484.7	28.3
10°-20°	4001.6	45.5
20°-30°	1729.2	19.7
30°-40°	394.1	4.5
40°-50°	135.3	1.5
50°-60°	33.1	0.4
60°-70°	8.6	0.1
70°-80°	0.9	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°	8215.4	93.5
0°-40°	8609.5	98.0
0°-60°	8777.9	99.9
0°-90°	8787.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8787.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28256	28256	28256	28256	28256	
5°	27340	27314	27308	27365	27341	2487
15°	14981	14801	14900	14852	14826	4011
25°	3521	3654	3970	3561	3449	1685
35°	591	604	566	562	474	401
45°	155	193	193	193	157	110
55°	25	26	47	28	26	24
65°	8	8	8	8	8	8
75°	0	0	1	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°	28255.6	28255.6	28255.6	28255.6	28255.6
2.5°	28068.3	28048.9	28060.0	28073.9	28079.4
5°	27340.0	27313.7	27308.1	27365.0	27341.4
7.5°	25870.9	25833.5	25776.6	25905.6	26026.3
10°	23409.9	23368.3	23244.8	23305.9	23404.4
12.5°	19776.7	19642.1	19639.4	19833.6	19807.2
15°	14981.0	14800.6	14900.5	14851.9	14825.6
17.5°	10074.2	10004.9	10138.1	10097.8	9924.4
20°	7247.0	7265.1	7518.9	7391.3	7237.3
22.5°	5288.2	5353.4	5654.4	5325.7	5205.0
25°	3520.9	3654.0	3970.3	3561.1	3448.7
27.5°	2165.5	2226.5	2547.0	2137.8	2076.7
30°	1347.0	1316.5	1467.7	1259.6	1173.6
32.5°	883.7	844.8	893.4	801.8	732.5
35°	591.0	603.5	566.0	561.8	474.4
37.5°	369.0	424.5	374.6	399.5	305.2
40°	238.6	308.0	265.0	292.7	224.7
42.5°	195.6	237.2	217.8	231.7	199.8
45°	155.4	192.8	192.8	192.8	156.8
47.5°	86.0	129.0	165.1	131.8	91.6
50°	48.6	65.2	127.6	68.0	51.3
52.5°	33.3	37.5	87.4	38.8	34.7
55°	25.0	26.4	47.2	27.7	26.4
57.5°	19.4	20.8	25.0	20.8	19.4
60°	15.3	15.3	18.0	16.6	15.3
62.5°	11.1	11.1	12.5	11.1	11.1
65°	8.3	8.3	8.3	8.3	8.3
67.5°	4.2	5.5	5.5	5.5	5.5
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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

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Scaled Data Report





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

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