

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: P749894

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749894
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: LD4D55D010-EU4DR3055659030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4301.7 lumens
Efficiency: N/A
Efficacy: 73.9 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): 58.2
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

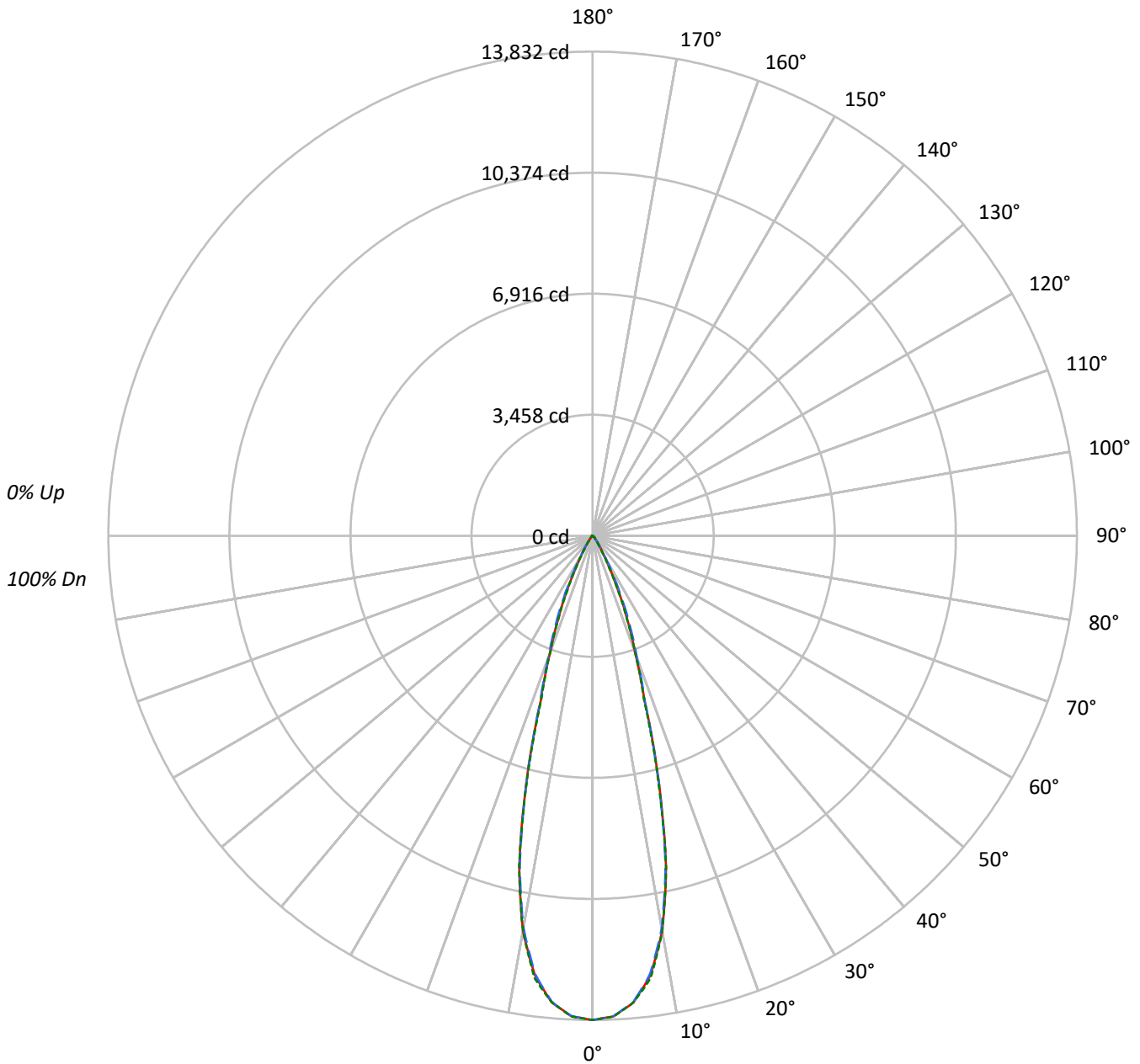


Downlight

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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°	1058748	1058748	1058748
5°	1028355	1027156	1028408
10°	890712	884431	890502
15°	581148	578026	575118
20°	288981	299822	288590
25°	145569	164149	142588
30°	58281	63504	50777
35°	27033	25893	21707
40°	11671	12960	10991
45°	8238	10219	8303
50°	2834	7443	2989
55°	1628	3083	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10219 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.3	28.3
10°-20°	1958.9	45.5
20°-30°	846.5	19.7
30°-40°	192.9	4.5
40°-50°	66.2	1.5
50°-60°	16.2	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4021.7	93.5
0°-40°	4214.6	98.0
0°-60°	4297.1	99.9
0°-90°	4301.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13832	13832	13832	13832	13832	
5°	13384	13371	13368	13396	13384	1217
15°	7334	7245	7294	7270	7258	1964
25°	1724	1789	1944	1743	1688	825
35°	289	295	277	275	232	196
45°	76	94	94	94	77	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
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°	13832.0	13832.0	13832.0	13832.0	13832.0
2.5°	13740.4	13730.9	13736.3	13743.1	13745.8
5°	13383.8	13370.9	13368.2	13396.1	13384.5
7.5°	12664.7	12646.3	12618.5	12681.6	12740.7
10°	11459.9	11439.6	11379.1	11409.0	11457.2
12.5°	9681.3	9615.5	9614.1	9709.2	9696.3
15°	7333.7	7245.4	7294.3	7270.5	7257.6
17.5°	4931.7	4897.7	4962.9	4943.2	4858.3
20°	3547.7	3556.5	3680.8	3618.3	3542.9
22.5°	2588.8	2620.7	2768.0	2607.1	2548.0
25°	1723.6	1788.8	1943.6	1743.3	1688.3
27.5°	1060.1	1090.0	1246.8	1046.5	1016.6
30°	659.4	644.5	718.5	616.6	574.5
32.5°	432.6	413.6	437.3	392.5	358.6
35°	289.3	295.4	277.1	275.0	232.3
37.5°	180.6	207.8	183.4	195.6	149.4
40°	116.8	150.8	129.7	143.3	110.0
42.5°	95.8	116.1	106.6	113.4	97.8
45°	76.1	94.4	94.4	94.4	76.7
47.5°	42.1	63.2	80.8	64.5	44.8
50°	23.8	31.9	62.5	33.3	25.1
52.5°	16.3	18.3	42.8	19.0	17.0
55°	12.2	12.9	23.1	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.1	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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