

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: P749871

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749871
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-EU4DR3055659024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4084.2 lumens
Efficiency: N/A
Efficacy: 70.2 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): 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

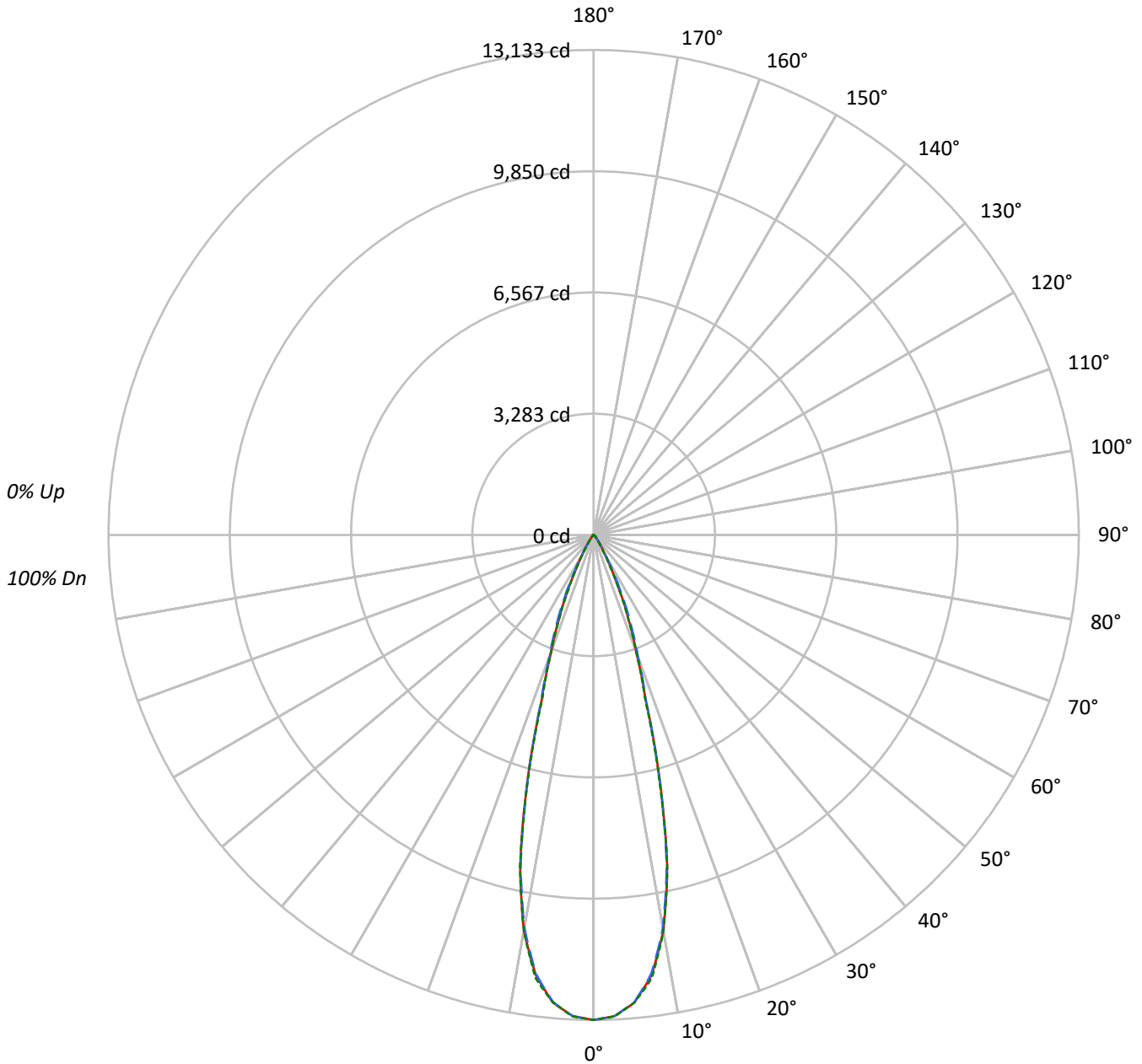


Downlight

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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	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°	1005229	1005229	1005229
5°	976368	975230	976421
10°	845686	839724	845484
15°	551765	548801	546044
20°	274368	284664	274001
25°	138204	155847	135375
30°	55338	60296	48214
35°	25669	24585	20604
40°	11081	12310	10442
45°	7816	9699	7891
50°	2691	7061	2846
55°	1548	2923	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1154.8	28.3
10°-20°	1859.9	45.5
20°-30°	803.7	19.7
30°-40°	183.2	4.5
40°-50°	62.9	1.5
50°-60°	15.4	0.4
60°-70°	4.0	0.1
70°-80°	0.4	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°	3818.4	93.5
0°-40°	4001.6	98.0
0°-60°	4079.8	99.9
0°-90°	4084.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13133	13133	13133	13133	13133	
5°	12707	12695	12692	12719	12708	1156
15°	6963	6879	6926	6903	6891	1864
25°	1636	1698	1845	1655	1603	783
35°	275	280	263	261	220	186
45°	72	90	90	90	73	51
55°	12	12	22	13	12	11
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°	13132.8	13132.8	13132.8	13132.8	13132.8
2.5°	13045.7	13036.7	13041.9	13048.3	13050.9
5°	12707.2	12695.0	12692.4	12718.8	12707.9
7.5°	12024.4	12007.0	11980.6	12040.5	12096.6
10°	10880.6	10861.2	10803.9	10832.2	10878.0
12.5°	9191.9	9129.4	9128.1	9218.4	9206.1
15°	6962.9	6879.1	6925.5	6903.0	6890.7
17.5°	4682.4	4650.1	4712.0	4693.3	4612.7
20°	3368.3	3376.7	3494.7	3435.4	3363.8
22.5°	2457.9	2488.2	2628.1	2475.3	2419.2
25°	1636.4	1698.3	1845.3	1655.1	1602.9
27.5°	1006.5	1034.9	1183.8	993.6	965.2
30°	626.1	611.9	682.2	585.5	545.5
32.5°	410.7	392.7	415.2	372.7	340.4
35°	274.7	280.5	263.1	261.1	220.5
37.5°	171.5	197.3	174.1	185.7	141.9
40°	110.9	143.1	123.2	136.0	104.5
42.5°	90.9	110.3	101.2	107.7	92.8
45°	72.2	89.6	89.6	89.6	72.9
47.5°	40.0	60.0	76.7	61.3	42.6
50°	22.6	30.3	59.3	31.6	23.9
52.5°	15.5	17.4	40.6	18.1	16.1
55°	11.6	12.3	21.9	12.9	12.3
57.5°	9.0	9.7	11.6	9.7	9.0
60°	7.1	7.1	8.4	7.7	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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