

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: P749936

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749936
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-EU4DR3055659050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5077.7 lumens
Efficiency: N/A
Efficacy: 87.2 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

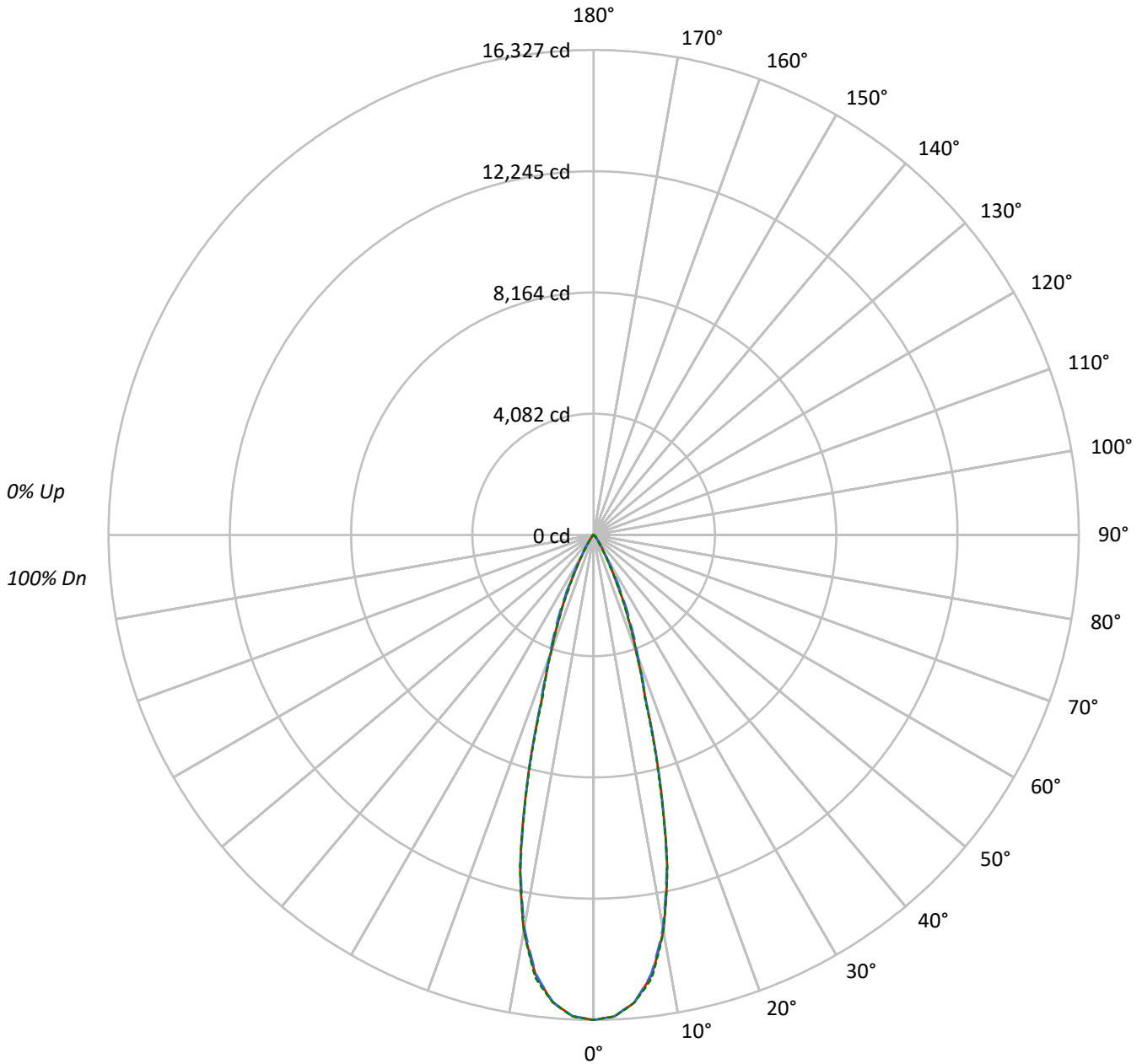


Downlight

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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°	1249755	1249755	1249755
5°	1213882	1212461	1213944
10°	1051406	1043991	1051158
15°	685988	682303	678872
20°	341112	353909	340656
25°	171826	193760	168305
30°	68799	74959	59943
35°	31911	30565	25622
40°	13779	15298	12980
45°	9721	12059	9807
50°	3346	8776	3537
55°	1922	3643	2028
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1435.7	28.3
10°-20°	2312.3	45.5
20°-30°	999.2	19.7
30°-40°	227.7	4.5
40°-50°	78.2	1.5
50°-60°	19.1	0.4
60°-70°	4.9	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°	4747.2	93.5
0°-40°	4975.0	98.0
0°-60°	5072.3	99.9
0°-90°	5077.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5077.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16327	16327	16327	16327	16327	
5°	15798	15783	15780	15813	15799	1437
15°	8657	8552	8610	8582	8567	2318
25°	2034	2112	2294	2058	1993	974
35°	342	349	327	325	274	232
45°	90	111	111	111	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16327.4	16327.4	16327.4	16327.4	16327.4
2.5°	16219.2	16208.0	16214.4	16222.4	16225.6
5°	15798.4	15783.1	15779.9	15812.8	15799.2
7.5°	14949.5	14927.8	14894.9	14969.5	15039.2
10°	13527.4	13503.3	13432.0	13467.3	13524.2
12.5°	11427.9	11350.2	11348.6	11460.8	11445.6
15°	8656.7	8552.5	8610.2	8582.2	8566.9
17.5°	5821.4	5781.3	5858.3	5835.0	5734.8
20°	4187.7	4198.1	4344.8	4271.0	4182.1
22.5°	3055.8	3093.5	3267.4	3077.4	3007.7
25°	2034.5	2111.5	2294.2	2057.8	1992.8
27.5°	1251.3	1286.6	1471.8	1235.3	1200.0
30°	778.4	760.7	848.1	727.9	678.2
32.5°	510.6	488.2	516.2	463.3	423.3
35°	341.5	348.7	327.1	324.7	274.2
37.5°	213.2	245.3	216.4	230.9	176.4
40°	137.9	178.0	153.1	169.1	129.9
42.5°	113.0	137.1	125.9	133.9	115.4
45°	89.8	111.4	111.4	111.4	90.6
47.5°	49.7	74.6	95.4	76.2	52.9
50°	28.1	37.7	73.7	39.3	29.7
52.5°	19.2	21.6	50.5	22.4	20.0
55°	14.4	15.2	27.3	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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