

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: P749897

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749897
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-EU4DR3055659030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4766.4 lumens
Efficiency: N/A
Efficacy: 81.9 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

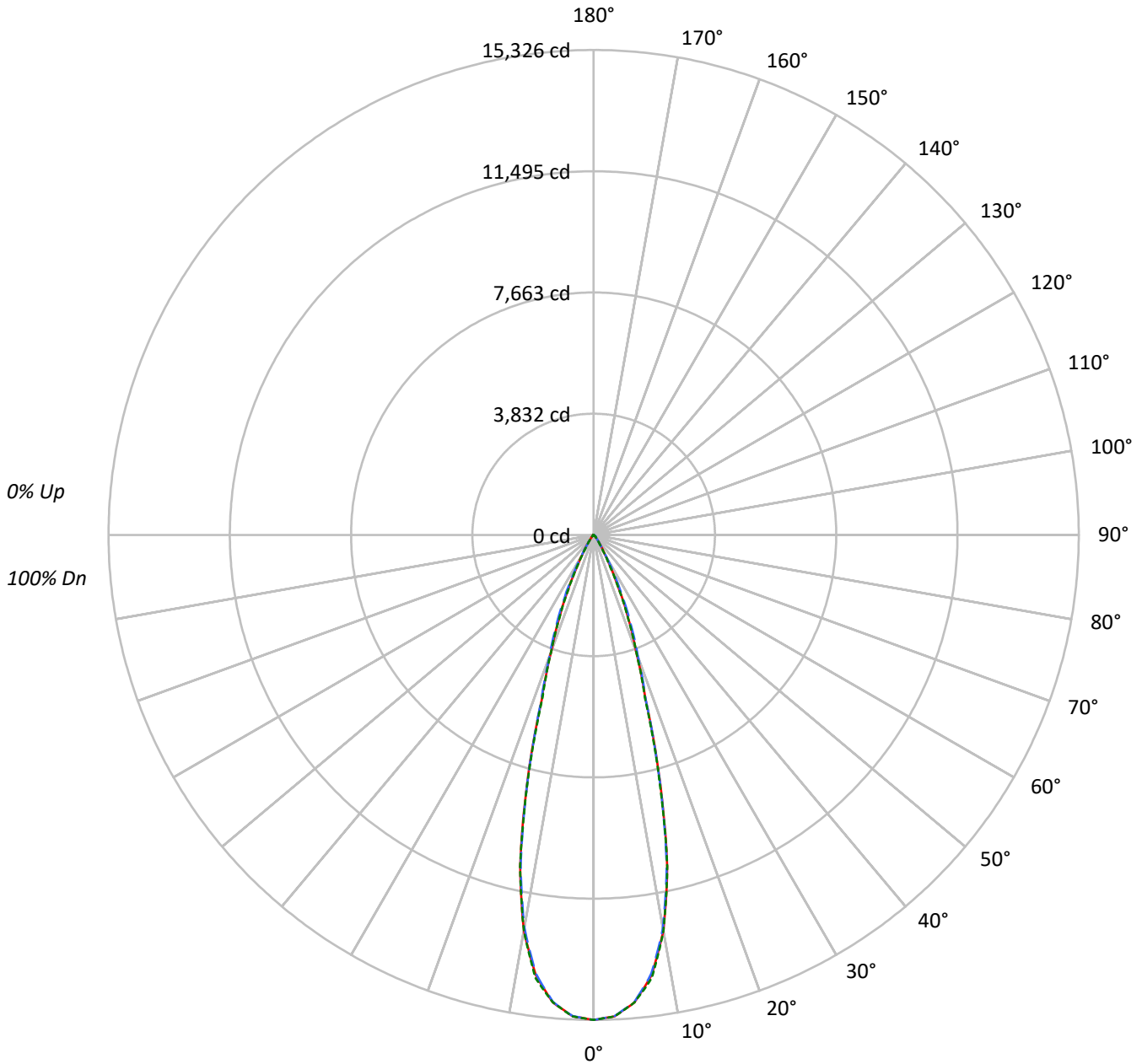
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1173112	1173112	1173112
5°	1139436	1138107	1139498
10°	986926	979962	986693
15°	643917	640462	637245
20°	320195	332201	319763
25°	161286	181877	157984
30°	64574	70363	56266
35°	29948	28687	24043
40°	12930	14359	12180
45°	9125	11323	9201
50°	3132	8240	3310
55°	1802	3416	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11323 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1347.7	28.3
10°-20°	2170.5	45.5
20°-30°	937.9	19.7
30°-40°	213.8	4.5
40°-50°	73.4	1.5
50°-60°	17.9	0.4
60°-70°	4.6	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°	4456.1	93.5
0°-40°	4669.9	98.0
0°-60°	4761.2	99.9
0°-90°	4766.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15326	15326	15326	15326	15326	
5°	14830	14815	14812	14843	14830	1349
15°	8126	8028	8082	8056	8042	2176
25°	1910	1982	2154	1932	1871	914
35°	320	327	307	305	257	217
45°	84	105	105	105	85	60
55°	14	14	26	15	14	13
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°	15326.1	15326.1	15326.1	15326.1	15326.1
2.5°	15224.6	15214.0	15220.0	15227.6	15230.6
5°	14829.5	14815.2	14812.2	14843.1	14830.3
7.5°	14032.7	14012.3	13981.5	14051.5	14116.9
10°	12697.8	12675.2	12608.2	12641.4	12694.8
12.5°	10727.1	10654.1	10652.6	10757.9	10743.6
15°	8125.8	8028.0	8082.2	8055.9	8041.6
17.5°	5464.4	5426.8	5499.0	5477.2	5383.1
20°	3930.9	3940.6	4078.3	4009.1	3925.6
22.5°	2868.4	2903.7	3067.0	2888.7	2823.2
25°	1909.7	1982.0	2153.5	1931.6	1870.6
27.5°	1174.6	1207.7	1381.5	1159.5	1126.4
30°	730.6	714.1	796.1	683.2	636.6
32.5°	479.3	458.2	484.6	434.9	397.3
35°	320.5	327.3	307.0	304.7	257.3
37.5°	200.2	230.3	203.2	216.7	165.5
40°	129.4	167.0	143.7	158.8	121.9
42.5°	106.1	128.7	118.1	125.7	108.4
45°	84.3	104.6	104.6	104.6	85.0
47.5°	46.7	70.0	89.5	71.5	49.7
50°	26.3	35.4	69.2	36.9	27.8
52.5°	18.1	20.3	47.4	21.1	18.8
55°	13.5	14.3	25.6	15.0	14.3
57.5°	10.5	11.3	13.5	11.3	10.5
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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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— 0°-180° - - 45°-225° - - - - 90°-270°

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