

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: P751470

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751470
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: LD4D65D010-EU4DR3055659035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5857.8 lumens
Efficiency: N/A
Efficacy: 80.5 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): 72.8
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

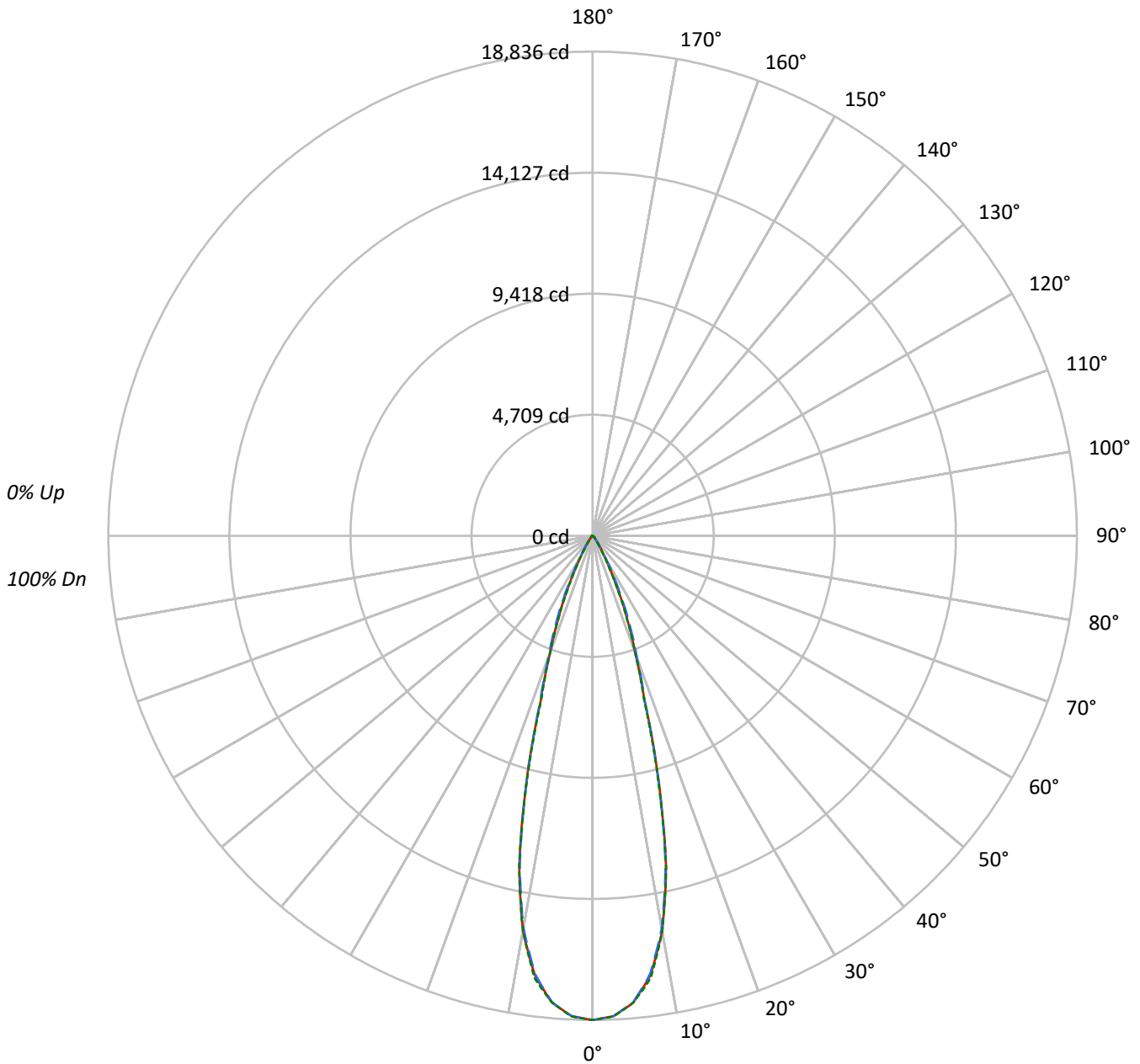


Downlight

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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°	1441748	1441748	1441748
5°	1400363	1398726	1400432
10°	1212925	1204375	1212637
15°	791374	787126	783164
20°	393513	408281	392983
25°	198227	223530	194165
30°	79369	86476	69152
35°	36816	35256	29556
40°	15897	17646	14968
45°	11215	13910	11312
50°	3858	10134	4073
55°	2215	4190	2349
60°	1561	1837	1561
65°	996	996	996
70°	627	403	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1656.3	28.3
10°-20°	2667.5	45.5
20°-30°	1152.7	19.7
30°-40°	262.7	4.5
40°-50°	90.2	1.5
50°-60°	22.0	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5476.5	93.5
0°-40°	5739.3	98.0
0°-60°	5851.5	99.9
0°-90°	5857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5857.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18836	18836	18836	18836	18836	
5°	18225	18208	18204	18242	18226	1658
15°	9987	9866	9933	9901	9883	2674
25°	2347	2436	2647	2374	2299	1123
35°	394	402	377	374	316	267
45°	104	128	128	128	104	74
55°	17	18	31	18	18	16
65°	6	6	6	6	6	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°	18835.7	18835.7	18835.7	18835.7	18835.7
2.5°	18710.9	18697.9	18705.3	18714.6	18718.3
5°	18225.4	18207.8	18204.1	18242.0	18226.3
7.5°	17246.1	17221.1	17183.2	17269.2	17349.6
10°	15605.5	15577.8	15495.5	15536.2	15601.8
12.5°	13183.5	13093.8	13092.0	13221.5	13203.9
15°	9986.6	9866.4	9933.0	9900.6	9883.0
17.5°	6715.7	6669.4	6758.2	6731.4	6615.8
20°	4831.0	4843.0	5012.3	4927.2	4824.5
22.5°	3525.2	3568.7	3769.4	3550.2	3469.7
25°	2347.1	2435.8	2646.7	2373.9	2299.0
27.5°	1443.6	1484.3	1697.9	1425.1	1384.4
30°	898.0	877.6	978.4	839.7	782.4
32.5°	589.1	563.2	595.6	534.5	488.3
35°	394.0	402.3	377.3	374.5	316.3
37.5°	246.0	283.0	249.7	266.3	203.4
40°	159.1	205.3	176.6	195.1	149.8
42.5°	130.4	158.1	145.2	154.4	133.2
45°	103.6	128.5	128.5	128.5	104.5
47.5°	57.3	86.0	110.0	87.9	61.0
50°	32.4	43.5	85.1	45.3	34.2
52.5°	22.2	25.0	58.3	25.9	23.1
55°	16.6	17.6	31.4	18.5	17.6
57.5°	12.9	13.9	16.6	13.9	12.9
60°	10.2	10.2	12.0	11.1	10.2
62.5°	7.4	7.4	8.3	7.4	7.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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