

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: P749130

Luminaire Tested: LD4D50D010-EU4DR3040509035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749130
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: LD4D50D010-EU4DR3040509035-4LBDP1MW
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: 4260.2 lumens
Efficiency: N/A
Efficacy: 90.6 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): 47
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

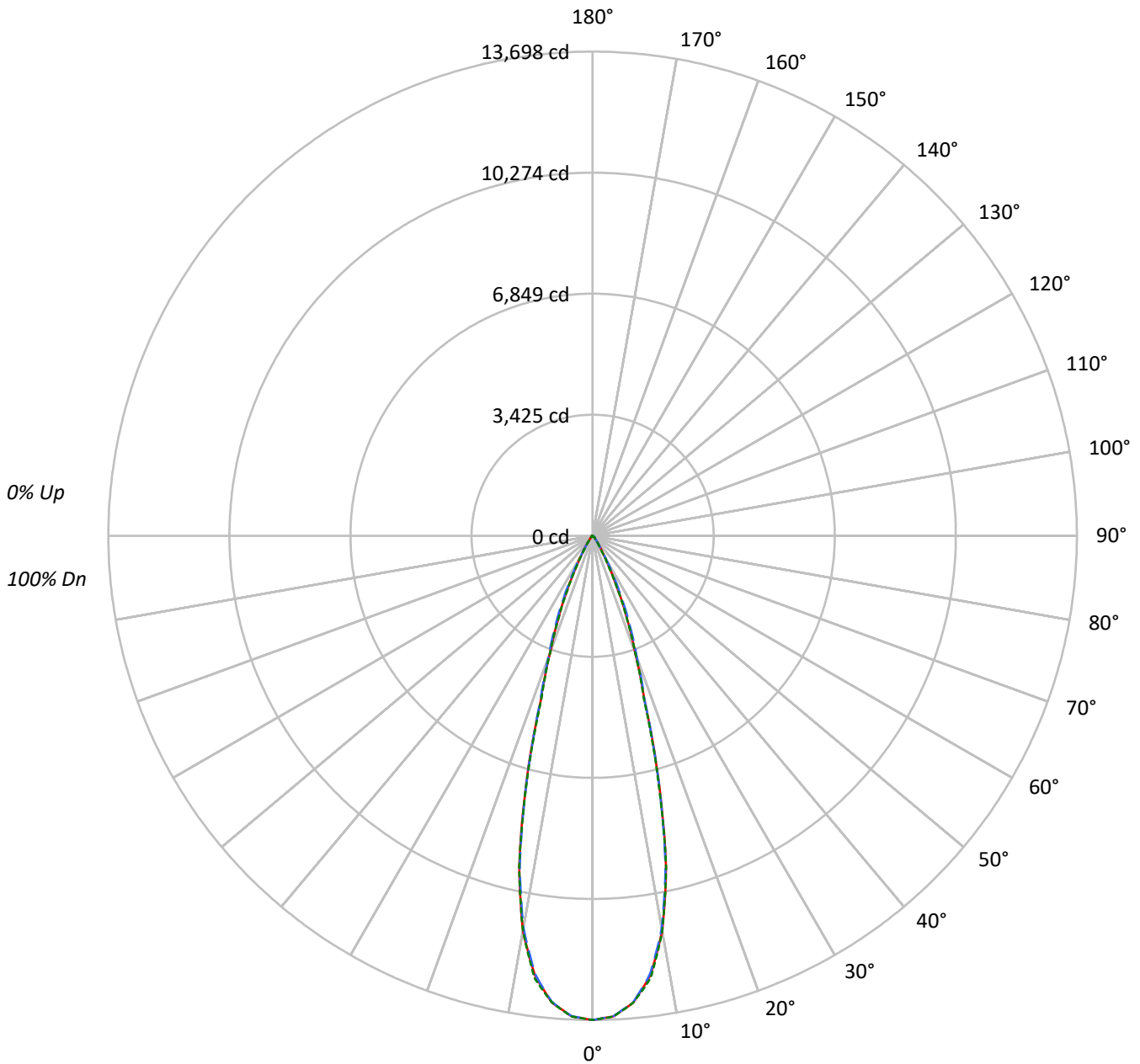


Downlight

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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1048530	1048530	1048530
5°	1018435	1017244	1018481
10°	882115	875897	881905
15°	575538	572448	569571
20°	286187	296923	285804
25°	144158	162561	141211
30°	57715	62895	50291
35°	26771	25641	21492
40°	11561	12840	10891
45°	8151	10121	8227
50°	2798	7371	2965
55°	1615	3056	1708
60°	1133	1332	1133
65°	724	724	724
70°	448	291	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: 10121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.6	28.3
10°-20°	1940.0	45.5
20°-30°	838.3	19.7
30°-40°	191.1	4.5
40°-50°	65.6	1.5
50°-60°	16.0	0.4
60°-70°	4.1	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°	3982.9	93.5
0°-40°	4174.0	98.0
0°-60°	4255.6	99.9
0°-90°	4260.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13698	13698	13698	13698	13698	
5°	13255	13242	13239	13267	13255	1206
15°	7263	7176	7224	7200	7188	1945
25°	1707	1772	1925	1726	1672	817
35°	286	293	274	272	230	194
45°	75	94	94	94	76	53
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°	13698.5	13698.5	13698.5	13698.5	13698.5
2.5°	13607.7	13598.3	13603.7	13610.4	13613.1
5°	13254.7	13241.9	13239.2	13266.8	13255.3
7.5°	12542.4	12524.3	12496.7	12559.2	12617.8
10°	11349.3	11329.1	11269.3	11298.9	11346.6
12.5°	9587.9	9522.7	9521.3	9615.5	9602.7
15°	7262.9	7175.5	7223.9	7200.3	7187.6
17.5°	4884.1	4850.4	4915.0	4895.5	4811.4
20°	3513.4	3522.2	3645.2	3583.4	3508.7
22.5°	2563.8	2595.4	2741.3	2581.9	2523.4
25°	1706.9	1771.5	1924.8	1726.4	1672.0
27.5°	1049.9	1079.4	1234.8	1036.4	1006.8
30°	653.0	638.3	711.6	610.7	569.0
32.5°	428.4	409.6	433.1	388.7	355.1
35°	286.5	292.6	274.4	272.4	230.0
37.5°	178.9	205.8	181.6	193.7	148.0
40°	115.7	149.3	128.5	141.9	109.0
42.5°	94.8	115.0	105.6	112.3	96.8
45°	75.3	93.5	93.5	93.5	76.0
47.5°	41.7	62.5	80.0	63.9	44.4
50°	23.5	31.6	61.9	33.0	24.9
52.5°	16.1	18.2	42.4	18.8	16.8
55°	12.1	12.8	22.9	13.5	12.8
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.7	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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