

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: P749104

Luminaire Tested: LD4D50D010-EU4DR3040509027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749104
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-EU4DR3040509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4092.1 lumens
Efficiency: N/A
Efficacy: 87.1 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

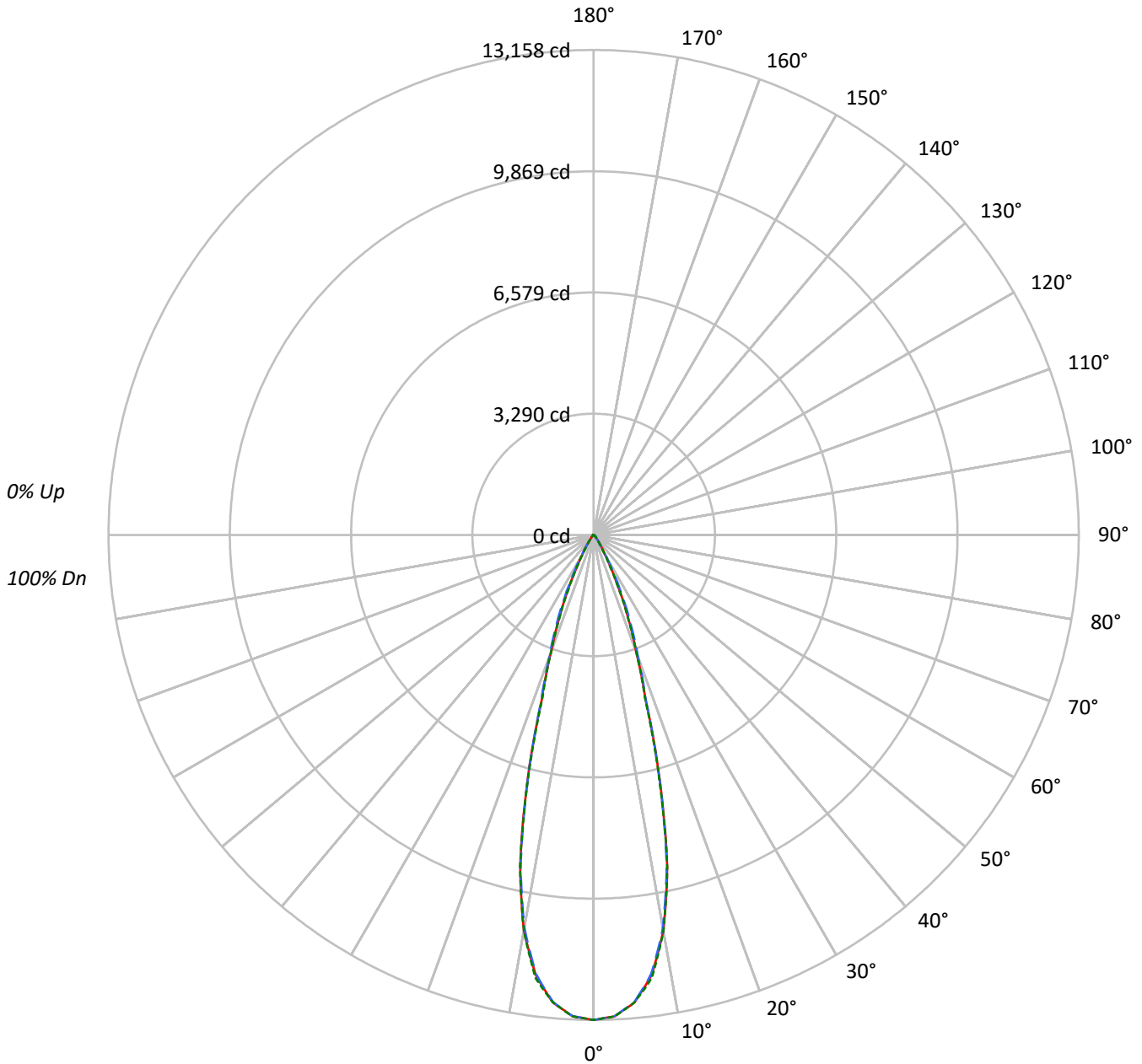


Downlight

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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°	1007166	1007166	1007166
5°	978250	977113	978304
10°	847318	841341	847116
15°	552835	549863	547098
20°	274897	285209	274530
25°	138475	156151	135637
30°	55444	60411	48302
35°	25715	24631	20641
40°	11101	12330	10462
45°	7837	9721	7902
50°	2691	7073	2846
55°	1548	2936	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: 9721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.1	28.3
10°-20°	1863.5	45.5
20°-30°	805.2	19.7
30°-40°	183.5	4.5
40°-50°	63.0	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°	3825.8	93.5
0°-40°	4009.3	98.0
0°-60°	4087.7	99.9
0°-90°	4092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13158	13158	13158	13158	13158	
5°	12732	12720	12717	12743	12732	1158
15°	6976	6892	6939	6916	6904	1868
25°	1640	1702	1849	1658	1606	785
35°	275	281	264	262	221	187
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°	13158.1	13158.1	13158.1	13158.1	13158.1
2.5°	13070.9	13061.9	13067.0	13073.5	13076.1
5°	12731.7	12719.5	12716.9	12743.4	12732.4
7.5°	12047.6	12030.2	12003.7	12063.8	12120.0
10°	10901.6	10882.2	10824.7	10853.1	10899.0
12.5°	9209.7	9147.0	9145.7	9236.1	9223.9
15°	6976.4	6892.4	6938.9	6916.3	6904.0
17.5°	4691.4	4659.1	4721.1	4702.4	4621.6
20°	3374.8	3383.2	3501.4	3442.0	3370.3
22.5°	2462.6	2493.0	2633.2	2480.1	2423.9
25°	1639.6	1701.6	1848.9	1658.3	1606.0
27.5°	1008.4	1036.9	1186.1	995.5	967.1
30°	627.3	613.1	683.5	586.6	546.5
32.5°	411.5	393.4	416.0	373.4	341.1
35°	275.2	281.0	263.6	261.6	220.9
37.5°	171.8	197.7	174.4	186.1	142.1
40°	111.1	143.4	123.4	136.3	104.7
42.5°	91.1	110.5	101.4	107.9	93.0
45°	72.4	89.8	89.8	89.8	73.0
47.5°	40.1	60.1	76.9	61.4	42.6
50°	22.6	30.4	59.4	31.7	23.9
52.5°	15.5	17.4	40.7	18.1	16.2
55°	11.6	12.3	22.0	12.9	12.3
57.5°	9.0	9.7	11.6	9.7	9.0
60°	7.1	7.1	8.4	7.8	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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