

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: P747597

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747597
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: LD4D40BD010-EU4DR3040509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.5 lumens
Efficiency: N/A
Efficacy: 109.7 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): 35.2
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

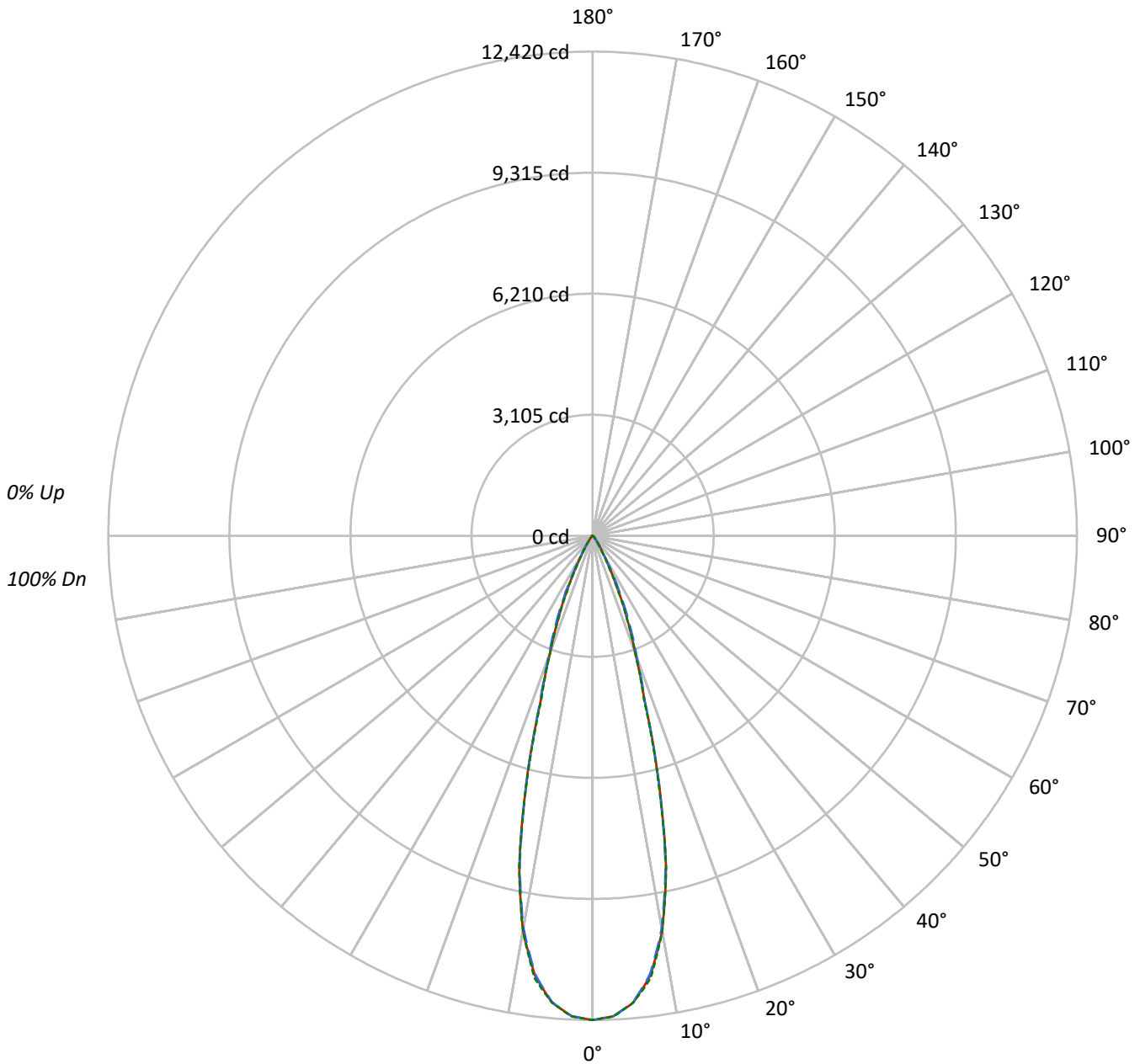


Downlight

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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°	950654	950654	950654
5°	923359	922283	923405
10°	799774	794131	799580
15°	521811	519006	516399
20°	259469	269203	259127
25°	130705	147393	128027
30°	52333	57017	45598
35°	24276	23248	19483
40°	10482	11641	9872
45°	7393	9179	7458
50°	2536	6680	2691
55°	1468	2762	1548
60°	1026	1209	1026
65°	670	670	670
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.1	28.3
10°-20°	1758.9	45.5
20°-30°	760.1	19.7
30°-40°	173.2	4.5
40°-50°	59.5	1.5
50°-60°	14.5	0.4
60°-70°	3.8	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°	3611.1	93.5
0°-40°	3784.3	98.0
0°-60°	3858.3	99.9
0°-90°	3862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12420	12420	12420	12420	12420	
5°	12017	12006	12003	12028	12018	1093
15°	6585	6506	6550	6528	6517	1763
25°	1548	1606	1745	1565	1516	741
35°	260	265	249	247	208	176
45°	68	85	85	85	69	48
55°	11	12	21	12	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°	12419.8	12419.8	12419.8	12419.8	12419.8
2.5°	12337.5	12328.9	12333.8	12339.9	12342.3
5°	12017.3	12005.7	12003.3	12028.3	12017.9
7.5°	11371.6	11355.1	11330.1	11386.8	11439.9
10°	10289.9	10271.6	10217.3	10244.1	10287.4
12.5°	8692.9	8633.7	8632.5	8717.9	8706.3
15°	6584.9	6505.6	6549.5	6528.2	6516.6
17.5°	4428.1	4397.7	4456.2	4438.5	4362.3
20°	3185.4	3193.4	3304.9	3248.9	3181.2
22.5°	2324.4	2353.1	2485.4	2340.9	2287.9
25°	1547.6	1606.1	1745.2	1565.3	1515.9
27.5°	951.8	978.7	1119.5	939.7	912.8
30°	592.1	578.7	645.1	553.7	515.9
32.5°	388.4	371.3	392.7	352.4	322.0
35°	259.8	265.2	248.8	247.0	208.5
37.5°	162.2	186.6	164.6	175.6	134.1
40°	104.9	135.4	116.5	128.7	98.8
42.5°	86.0	104.3	95.7	101.8	87.8
45°	68.3	84.8	84.8	84.8	68.9
47.5°	37.8	56.7	72.6	57.9	40.2
50°	21.3	28.7	56.1	29.9	22.6
52.5°	14.6	16.5	38.4	17.1	15.2
55°	11.0	11.6	20.7	12.2	11.6
57.5°	8.5	9.1	11.0	9.1	8.5
60°	6.7	6.7	7.9	7.3	6.7
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	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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