

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: P747541

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747541
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-EU4DR3040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.9 lumens
Efficiency: N/A
Efficacy: 81.6 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

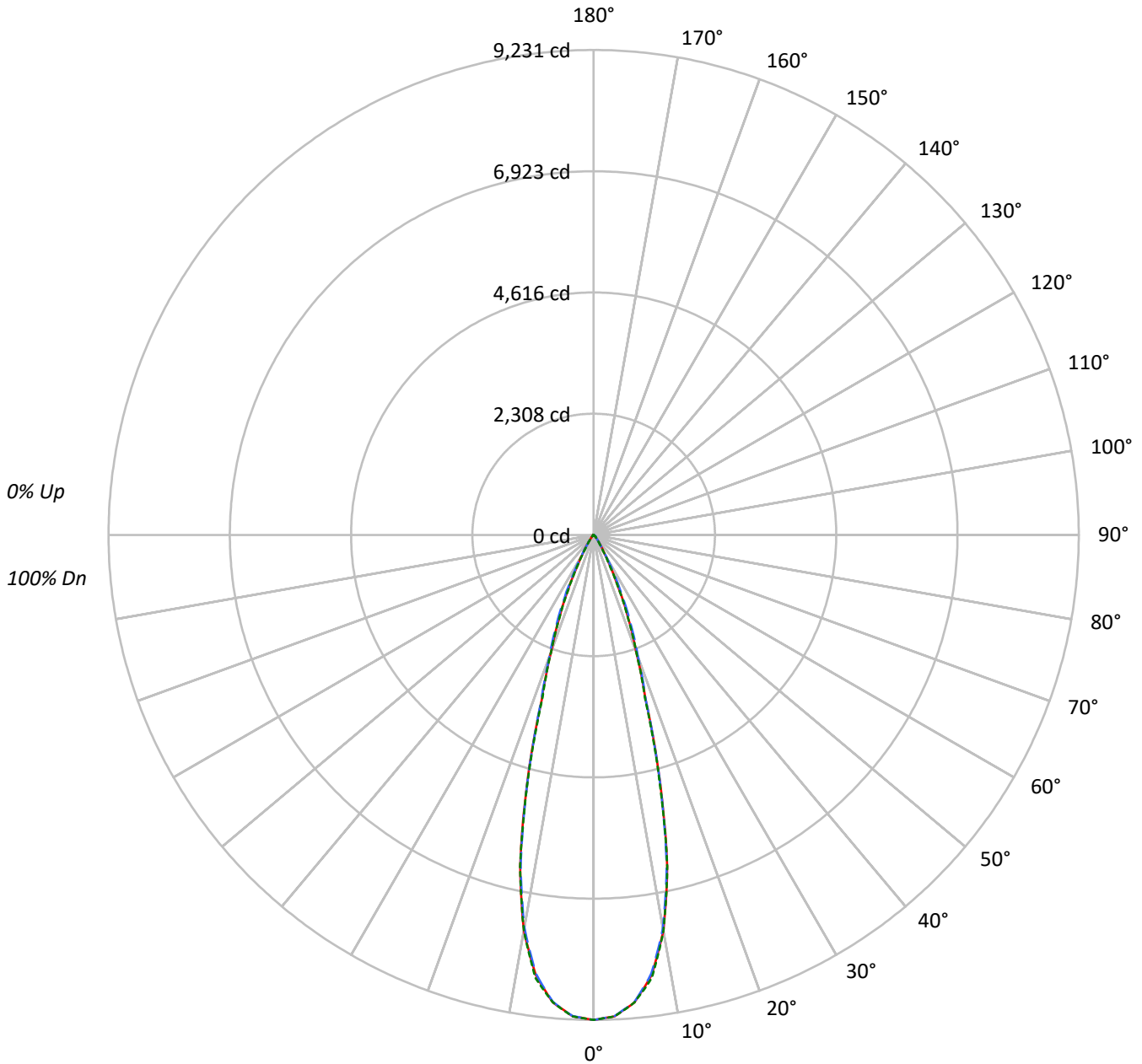
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	706587	706587	706587
5°	686305	685506	686343
10°	594442	590253	594303
15°	387850	385766	383824
20°	192855	200096	192602
25°	97150	109548	95157
30°	38898	42380	33887
35°	18044	17277	14484
40°	7794	8653	7334
45°	5499	6820	5542
50°	1893	4966	2001
55°	1094	2055	1148
60°	765	903	765
65°	489	489	489
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6820 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.7	28.3
10°-20°	1307.3	45.5
20°-30°	564.9	19.7
30°-40°	128.8	4.5
40°-50°	44.2	1.5
50°-60°	10.8	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2684.0	93.5
0°-40°	2812.8	98.0
0°-60°	2867.8	99.9
0°-90°	2870.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9231	9231	9231	9231	9231	
5°	8932	8924	8922	8940	8933	812
15°	4894	4835	4868	4852	4844	1311
25°	1150	1194	1297	1163	1127	551
35°	193	197	185	184	155	131
45°	51	63	63	63	51	36
55°	8	9	15	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9231.2	9231.2	9231.2	9231.2	9231.2
2.5°	9170.1	9163.7	9167.3	9171.9	9173.7
5°	8932.1	8923.5	8921.7	8940.3	8932.6
7.5°	8452.2	8439.9	8421.3	8463.5	8502.9
10°	7648.1	7634.5	7594.2	7614.1	7646.3
12.5°	6461.1	6417.2	6416.3	6479.7	6471.1
15°	4894.4	4835.4	4868.1	4852.2	4843.6
17.5°	3291.3	3268.6	3312.2	3299.0	3242.4
20°	2367.6	2373.5	2456.5	2414.8	2364.5
22.5°	1727.7	1749.0	1847.3	1739.9	1700.5
25°	1150.3	1193.8	1297.1	1163.4	1126.7
27.5°	707.5	727.4	832.1	698.4	678.5
30°	440.1	430.1	479.5	411.5	383.4
32.5°	288.7	276.0	291.9	262.0	239.3
35°	193.1	197.2	184.9	183.6	155.0
37.5°	120.6	138.7	122.4	130.5	99.7
40°	78.0	100.6	86.6	95.6	73.4
42.5°	63.9	77.5	71.2	75.7	65.3
45°	50.8	63.0	63.0	63.0	51.2
47.5°	28.1	42.1	53.9	43.1	29.9
50°	15.9	21.3	41.7	22.2	16.8
52.5°	10.9	12.2	28.6	12.7	11.3
55°	8.2	8.6	15.4	9.1	8.6
57.5°	6.3	6.8	8.2	6.8	6.3
60°	5.0	5.0	5.9	5.4	5.0
62.5°	3.6	3.6	4.1	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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(END OF REPORT)