

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: P747571

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747571
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-EU4DR3040509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3663.8 lumens
Efficiency: N/A
Efficacy: 104.1 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

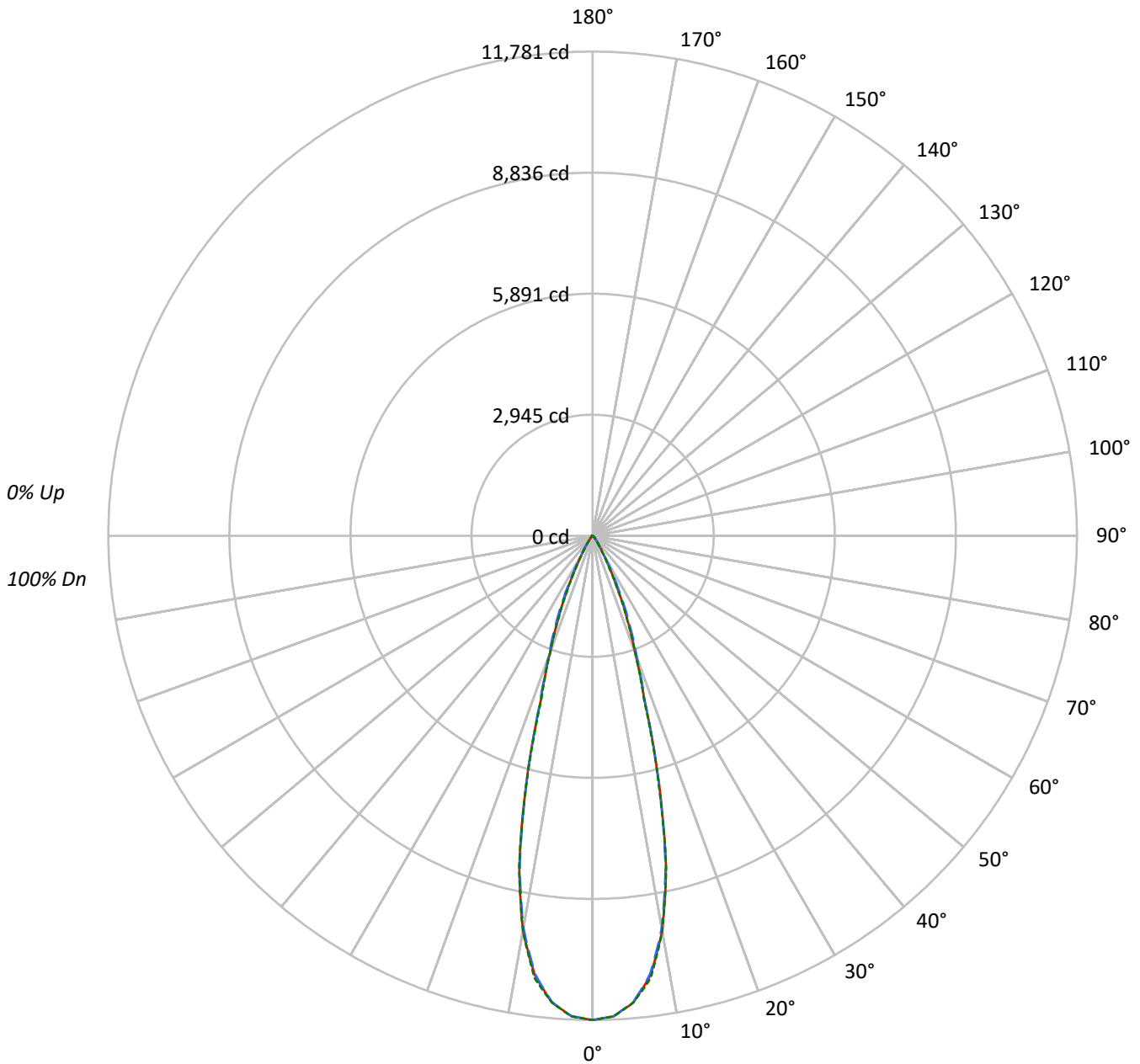
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	901750	901750	901750
5°	875866	874844	875905
10°	758635	753280	758448
15°	494971	492309	489836
20°	246127	255356	245793
25°	123982	139809	121440
30°	49637	54091	43247
35°	23024	22052	18483
40°	9942	11041	9363
45°	7015	8703	7079
50°	2405	6335	2548
55°	1388	2629	1468
60°	980	1148	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8703 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.0	28.3
10°-20°	1668.4	45.5
20°-30°	721.0	19.7
30°-40°	164.3	4.5
40°-50°	56.4	1.5
50°-60°	13.8	0.4
60°-70°	3.6	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°	3425.3	93.5
0°-40°	3589.7	98.0
0°-60°	3659.9	99.9
0°-90°	3663.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11781	11781	11781	11781	11781	
5°	11399	11388	11386	11410	11400	1037
15°	6246	6171	6213	6192	6181	1673
25°	1468	1524	1655	1485	1438	703
35°	246	252	236	234	198	167
45°	65	80	80	80	65	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11780.9	11780.9	11780.9	11780.9	11780.9
2.5°	11702.8	11694.7	11699.4	11705.1	11707.5
5°	11399.2	11388.2	11385.9	11409.6	11399.7
7.5°	10786.6	10771.0	10747.3	10801.1	10851.4
10°	9760.6	9743.2	9691.7	9717.2	9758.2
12.5°	8245.7	8189.6	8188.5	8269.4	8258.4
15°	6246.2	6171.0	6212.6	6192.4	6181.4
17.5°	4200.4	4171.4	4227.0	4210.2	4137.9
20°	3021.6	3029.1	3134.9	3081.7	3017.5
22.5°	2204.9	2232.1	2357.6	2220.5	2170.2
25°	1468.0	1523.5	1655.4	1484.8	1437.9
27.5°	902.9	928.3	1061.9	891.3	865.9
30°	561.6	548.9	612.0	525.2	489.3
32.5°	368.4	352.2	372.5	334.3	305.4
35°	246.4	251.6	236.0	234.3	197.8
37.5°	153.9	177.0	156.2	166.6	127.2
40°	99.5	128.4	110.5	122.0	93.7
42.5°	81.6	98.9	90.8	96.6	83.3
45°	64.8	80.4	80.4	80.4	65.4
47.5°	35.9	53.8	68.8	54.9	38.2
50°	20.2	27.2	53.2	28.3	21.4
52.5°	13.9	15.6	36.4	16.2	14.5
55°	10.4	11.0	19.7	11.6	11.0
57.5°	8.1	8.7	10.4	8.7	8.1
60°	6.4	6.4	7.5	6.9	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
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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