

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: P746819

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746819
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: LD4D35BD010-EU4DR3020359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3674.5 lumens
Efficiency: N/A
Efficacy: 119.3 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

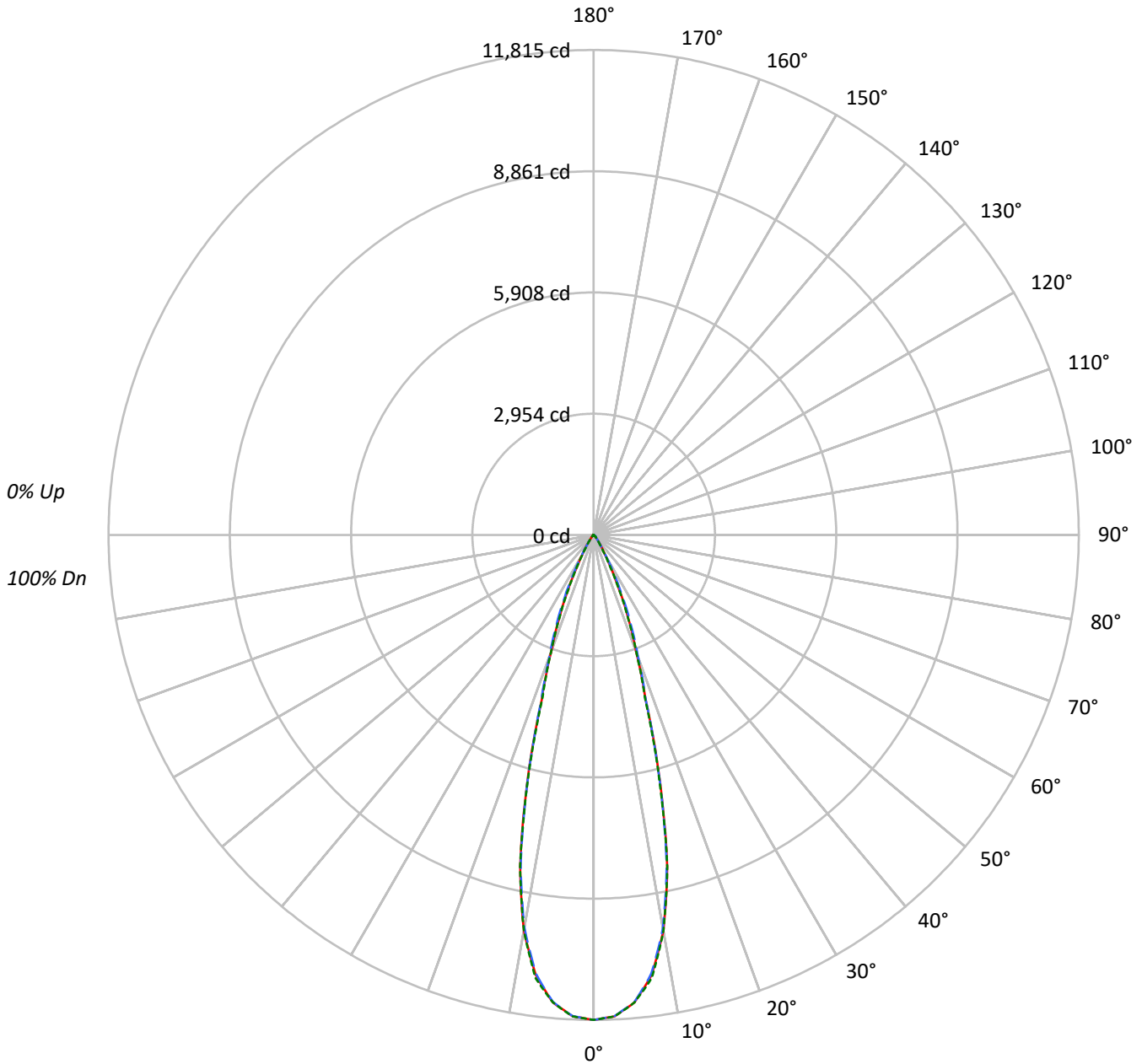
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	904376	904376	904376
5°	878417	877388	878463
10°	760842	755479	760663
15°	496413	493743	491262
20°	246844	256105	246510
25°	124345	140214	121794
30°	49787	54242	43379
35°	23090	22118	18539
40°	9972	11071	9393
45°	7036	8725	7090
50°	2417	6359	2560
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: 8725 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.0	28.3
10°-20°	1673.3	45.5
20°-30°	723.1	19.7
30°-40°	164.8	4.5
40°-50°	56.6	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°	3435.3	93.5
0°-40°	3600.1	98.0
0°-60°	3670.5	99.9
0°-90°	3674.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11815	11815	11815	11815	11815	
5°	11432	11421	11419	11443	11433	1040
15°	6264	6189	6231	6210	6199	1677
25°	1472	1528	1660	1489	1442	705
35°	247	252	237	235	198	168
45°	65	81	81	81	66	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°	11815.2	11815.2	11815.2	11815.2	11815.2
2.5°	11736.9	11728.8	11733.4	11739.2	11741.6
5°	11432.4	11421.4	11419.0	11442.8	11433.0
7.5°	10818.1	10802.4	10778.6	10832.6	10883.0
10°	9789.0	9771.6	9720.0	9745.5	9786.7
12.5°	8269.7	8213.5	8212.3	8293.5	8282.5
15°	6264.4	6189.0	6230.7	6210.4	6199.4
17.5°	4212.6	4183.6	4239.3	4222.5	4149.9
20°	3030.4	3037.9	3144.1	3090.7	3026.3
22.5°	2211.3	2238.6	2364.4	2227.0	2176.5
25°	1472.3	1528.0	1660.2	1489.1	1442.1
27.5°	905.5	931.0	1065.0	893.9	868.4
30°	563.3	550.5	613.7	526.7	490.8
32.5°	369.5	353.3	373.6	335.3	306.3
35°	247.1	252.3	236.7	234.9	198.4
37.5°	154.3	177.5	156.6	167.1	127.6
40°	99.8	128.8	110.8	122.4	94.0
42.5°	81.8	99.2	91.1	96.9	83.5
45°	65.0	80.6	80.6	80.6	65.5
47.5°	36.0	53.9	69.0	55.1	38.3
50°	20.3	27.3	53.4	28.4	21.5
52.5°	13.9	15.7	36.5	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	7.0	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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