

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: P746801

Luminaire Tested: LD4D35BD010-EU4DR3020359040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746801
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-EU4DR3020359040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3300.9 lumens
Efficiency: N/A
Efficacy: 107.2 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

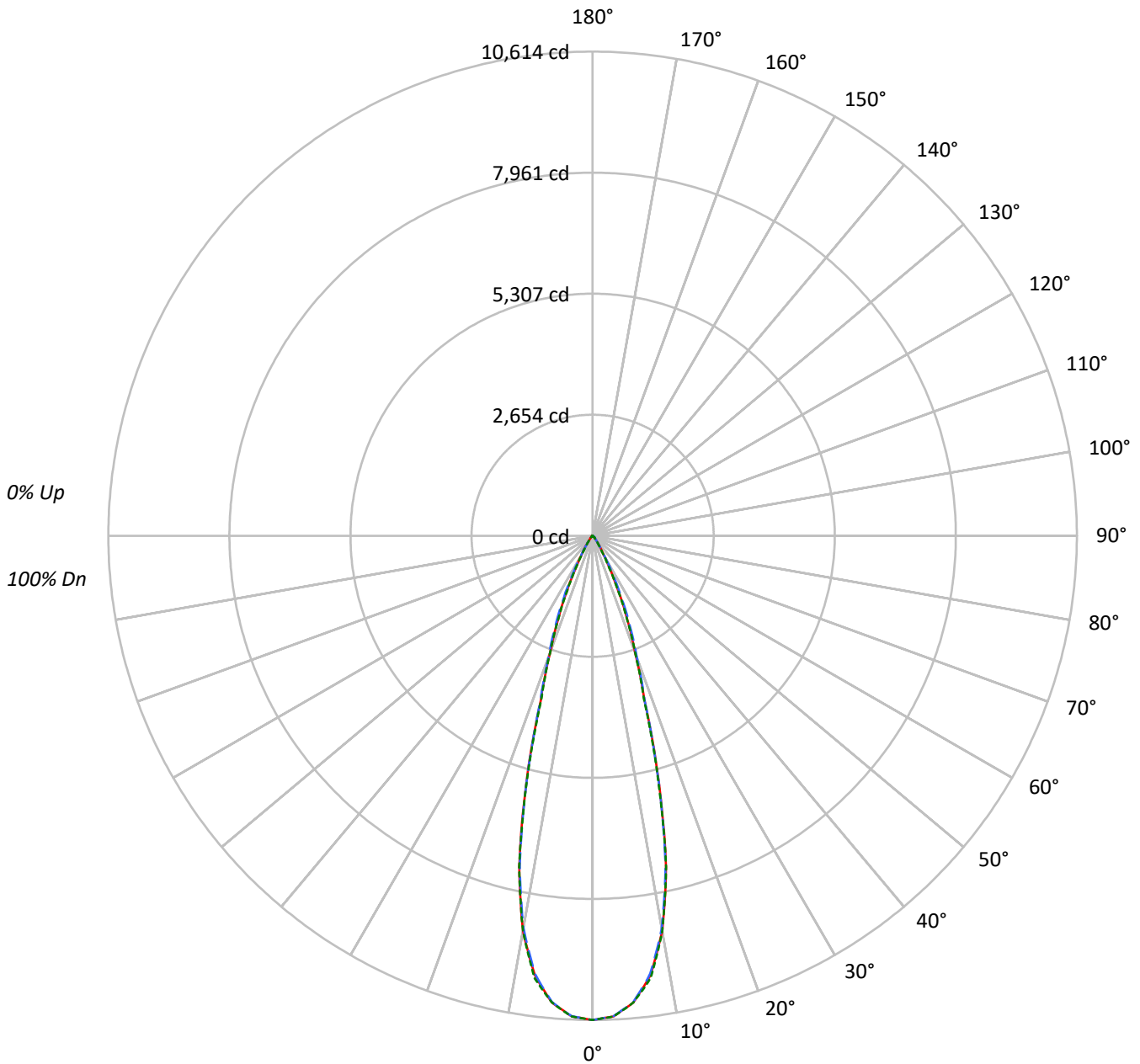
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	812447	812447	812447
5°	789119	788197	789157
10°	683499	678680	683336
15°	445951	443550	441323
20°	221747	230072	221454
25°	111702	125958	109413
30°	44723	48726	38969
35°	20744	19866	16651
40°	8953	9942	8433
45°	6322	7837	6376
50°	2167	5704	2298
55°	1254	2362	1321
60°	873	1041	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.4	28.3
10°-20°	1503.2	45.5
20°-30°	649.6	19.7
30°-40°	148.1	4.5
40°-50°	50.8	1.5
50°-60°	12.4	0.4
60°-70°	3.2	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°	3086.1	93.5
0°-40°	3234.1	98.0
0°-60°	3297.4	99.9
0°-90°	3300.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3300.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10614	10614	10614	10614	10614	
5°	10270	10260	10258	10280	10271	934
15°	5628	5560	5597	5579	5569	1507
25°	1323	1373	1491	1338	1296	633
35°	222	227	213	211	178	151
45°	58	72	72	72	59	41
55°	9	10	18	10	10	9
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°	10614.2	10614.2	10614.2	10614.2	10614.2
2.5°	10543.8	10536.5	10540.7	10545.9	10548.0
5°	10270.2	10260.3	10258.2	10279.6	10270.7
7.5°	9718.4	9704.3	9682.9	9731.4	9776.7
10°	8793.9	8778.3	8731.9	8754.8	8791.8
12.5°	7429.1	7378.5	7377.5	7450.4	7440.5
15°	5627.6	5559.8	5597.3	5579.1	5569.2
17.5°	3784.4	3758.3	3808.3	3793.2	3728.1
20°	2722.3	2729.1	2824.5	2776.5	2718.7
22.5°	1986.5	2011.0	2124.1	2000.6	1955.2
25°	1322.6	1372.6	1491.4	1337.7	1295.5
27.5°	813.5	836.4	956.8	803.0	780.1
30°	506.0	494.5	551.3	473.2	440.9
32.5°	332.0	317.4	335.6	301.2	275.2
35°	222.0	226.7	212.6	211.1	178.2
37.5°	138.6	159.5	140.7	150.1	114.6
40°	89.6	115.7	99.5	110.0	84.4
42.5°	73.5	89.1	81.8	87.0	75.0
45°	58.4	72.4	72.4	72.4	58.9
47.5°	32.3	48.5	62.0	49.5	34.4
50°	18.2	24.5	47.9	25.5	19.3
52.5°	12.5	14.1	32.8	14.6	13.0
55°	9.4	9.9	17.7	10.4	9.9
57.5°	7.3	7.8	9.4	7.8	7.3
60°	5.7	5.7	6.8	6.3	5.7
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	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

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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