

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: P742928

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR1515309040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1375.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 15.8
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

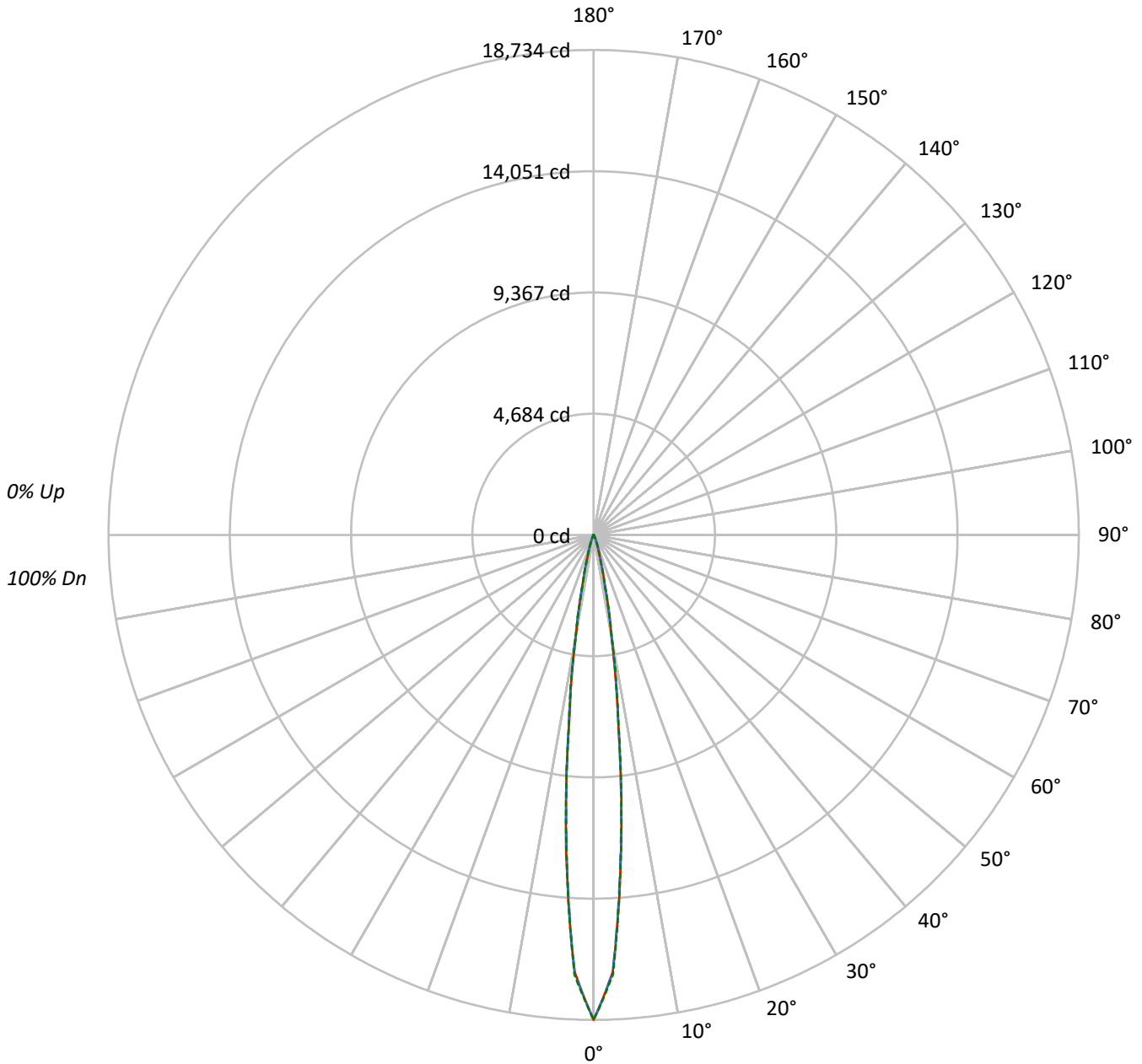


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2107915	2107915	2107915
5°	1238714	1222677	1232342
10°	369694	372288	377989
15°	91955	93753	90852
20°	27517	31862	28098
25°	9699	12355	9823
30°	3564	4695	3624
35°	1786	2019	1728
40°	1129	1236	1129
45°	833	889	833
50°	661	661	661
55°	550	550	550
60°	442	442	442
65°	343	343	343
70°	293	293	293
75°	181	181	242
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 889 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.8	64.9
10°-20°	366.8	26.7
20°-30°	72.9	5.3
30°-40°	18.2	1.3
40°-50°	9.6	0.7
50°-60°	7.1	0.5
60°-70°	5.0	0.4
70°-80°	2.9	0.2
80°-90°	0.9	0.1
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°	1331.4	96.8
0°-40°	1349.6	98.2
0°-60°	1366.2	99.4
0°-90°	1375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18734	18734	18734	18734	18734	
5°	12189	12063	12031	12114	12126	890
15°	1059	1079	1079	1060	1046	363
25°	124	141	159	140	126	65
35°	25	26	28	26	24	17
45°	12	12	13	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18733.7	18733.7	18733.7	18733.7	18733.7
2.5°	16898.6	16912.8	16918.4	16935.1	16996.9
5°	12188.6	12063.3	12030.8	12114.0	12125.9
7.5°	7220.0	7245.4	7338.2	7358.8	7284.3
10°	3962.1	3994.7	3989.9	4018.4	4051.0
12.5°	2026.3	2000.9	1993.0	2025.5	1980.3
15°	1058.7	1078.6	1079.4	1060.3	1046.0
17.5°	569.4	592.4	630.5	599.6	552.0
20°	336.3	356.9	389.4	364.0	343.4
22.5°	207.8	224.4	247.4	227.6	211.0
25°	124.5	141.2	158.6	140.4	126.1
27.5°	73.8	88.0	99.1	87.2	73.0
30°	47.6	55.5	62.7	54.7	48.4
32.5°	33.3	36.5	39.7	36.5	33.3
35°	24.6	26.2	27.8	26.2	23.8
37.5°	19.0	20.6	21.4	19.8	18.2
40°	15.9	16.7	17.4	16.7	15.9
42.5°	13.5	14.3	14.3	14.3	13.5
45°	11.9	11.9	12.7	11.9	11.9
47.5°	10.3	10.3	11.1	10.3	10.3
50°	9.5	9.5	9.5	9.5	9.5
52.5°	8.7	8.7	8.7	8.7	8.7
55°	7.9	7.9	7.9	7.9	7.9
57.5°	7.1	7.1	7.1	7.1	7.1
60°	6.3	6.3	6.3	6.3	6.3
62.5°	5.6	5.6	5.6	5.6	5.6
65°	4.8	4.8	4.8	4.8	4.8
67.5°	4.8	4.8	4.8	4.8	4.8
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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