

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: P742914

Luminaire Tested: LD4D15D010-EU4DR1515309035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742914
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-EU4DR1515309035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1311.0 lumens
Efficiency: N/A
Efficacy: 83.0 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 (Ain): 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

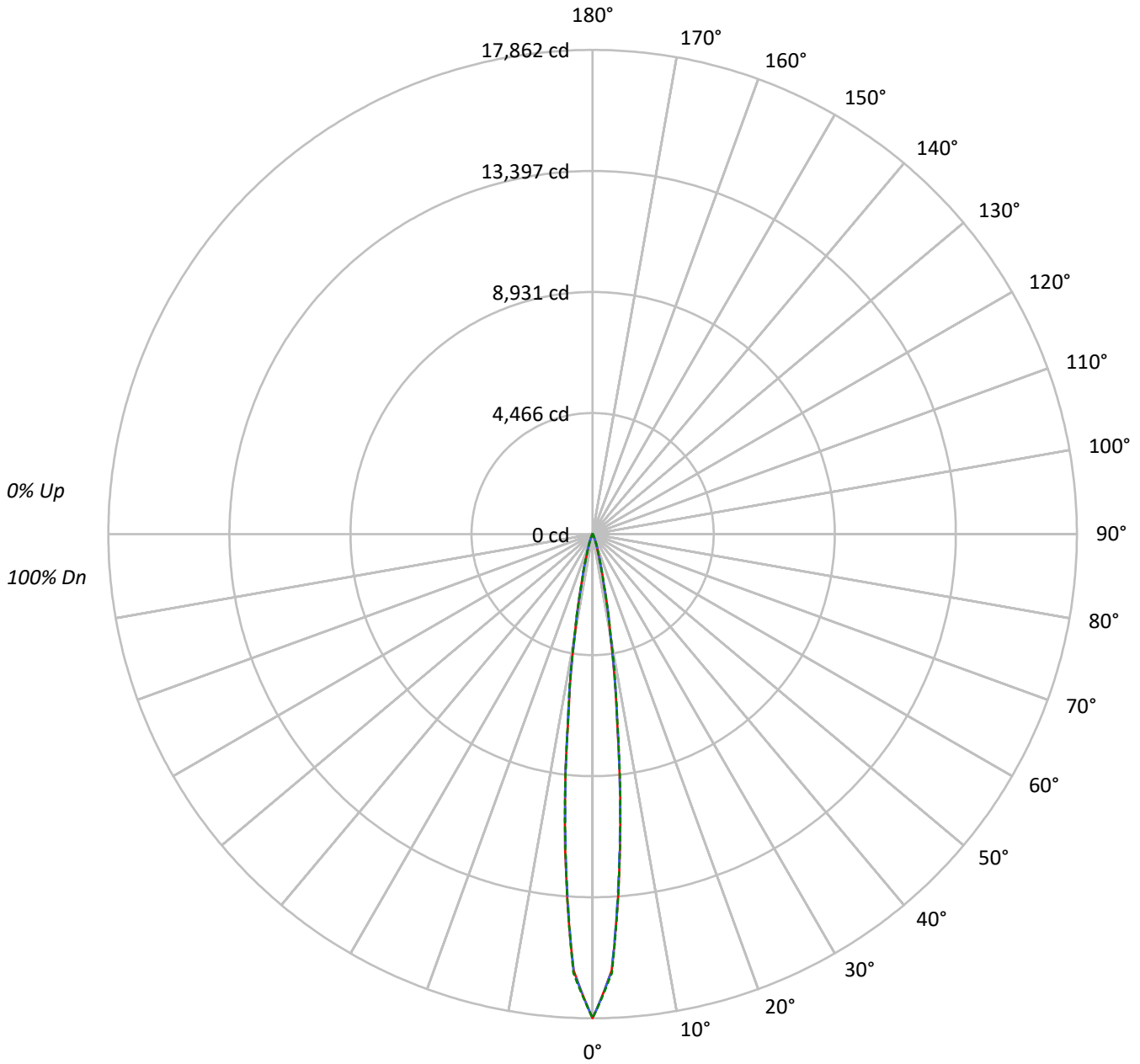


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2009809	2009809	2009809
5°	1181060	1165765	1174993
10°	352488	354961	360391
15°	87682	89384	86631
20°	26232	30381	26789
25°	9247	11779	9364
30°	3400	4470	3452
35°	1699	1924	1648
40°	1072	1179	1072
45°	791	847	791
50°	633	633	633
55°	529	529	529
60°	421	421	421
65°	321	321	321
70°	278	278	278
75°	174	174	227
80°	118	118	118
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.3	64.9
10°-20°	349.7	26.7
20°-30°	69.5	5.3
30°-40°	17.3	1.3
40°-50°	9.1	0.7
50°-60°	6.8	0.5
60°-70°	4.8	0.4
70°-80°	2.7	0.2
80°-90°	0.8	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°	1269.5	96.8
0°-40°	1286.8	98.2
0°-60°	1302.7	99.4
0°-90°	1311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17862	17862	17862	17862	17862	
5°	11621	11502	11471	11550	11562	849
15°	1010	1028	1029	1011	997	346
25°	119	135	151	134	120	62
35°	23	25	26	25	23	16
45°	11	11	12	11	11	9
55°	8	8	8	8	8	7
65°	4	4	4	4	4	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°	17861.8	17861.8	17861.8	17861.8	17861.8
2.5°	16112.1	16125.7	16131.0	16146.9	16205.8
5°	11621.3	11501.8	11470.8	11550.2	11561.6
7.5°	6884.0	6908.2	6996.7	7016.3	6945.3
10°	3777.7	3808.7	3804.2	3831.4	3862.4
12.5°	1932.0	1907.8	1900.2	1931.2	1888.1
15°	1009.5	1028.4	1029.1	1011.0	997.4
17.5°	542.9	564.8	601.1	571.7	526.3
20°	320.6	340.3	371.3	347.1	327.4
22.5°	198.1	214.0	235.9	217.0	201.1
25°	118.7	134.6	151.2	133.8	120.2
27.5°	70.3	83.9	94.5	83.2	69.6
30°	45.4	52.9	59.7	52.2	46.1
32.5°	31.8	34.8	37.8	34.8	31.8
35°	23.4	25.0	26.5	25.0	22.7
37.5°	18.1	19.7	20.4	18.9	17.4
40°	15.1	15.9	16.6	15.9	15.1
42.5°	12.9	13.6	13.6	13.6	12.9
45°	11.3	11.3	12.1	11.3	11.3
47.5°	9.8	9.8	10.6	9.8	9.8
50°	9.1	9.1	9.1	9.1	9.1
52.5°	8.3	8.3	8.3	8.3	8.3
55°	7.6	7.6	7.6	7.6	7.6
57.5°	6.8	6.8	6.8	6.8	6.8
60°	6.0	6.0	6.0	6.0	6.0
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	3.8	3.8	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.3	2.3	2.3	2.3	3.0
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5
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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