

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: P741876

Luminaire Tested: LD4D10D010-EU4DR150210IC9027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741876
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: LD4D10D010-EU4DR150210IC9027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 895.0 lumens
Efficiency: N/A
Efficacy: 76.5 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): 11.7
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



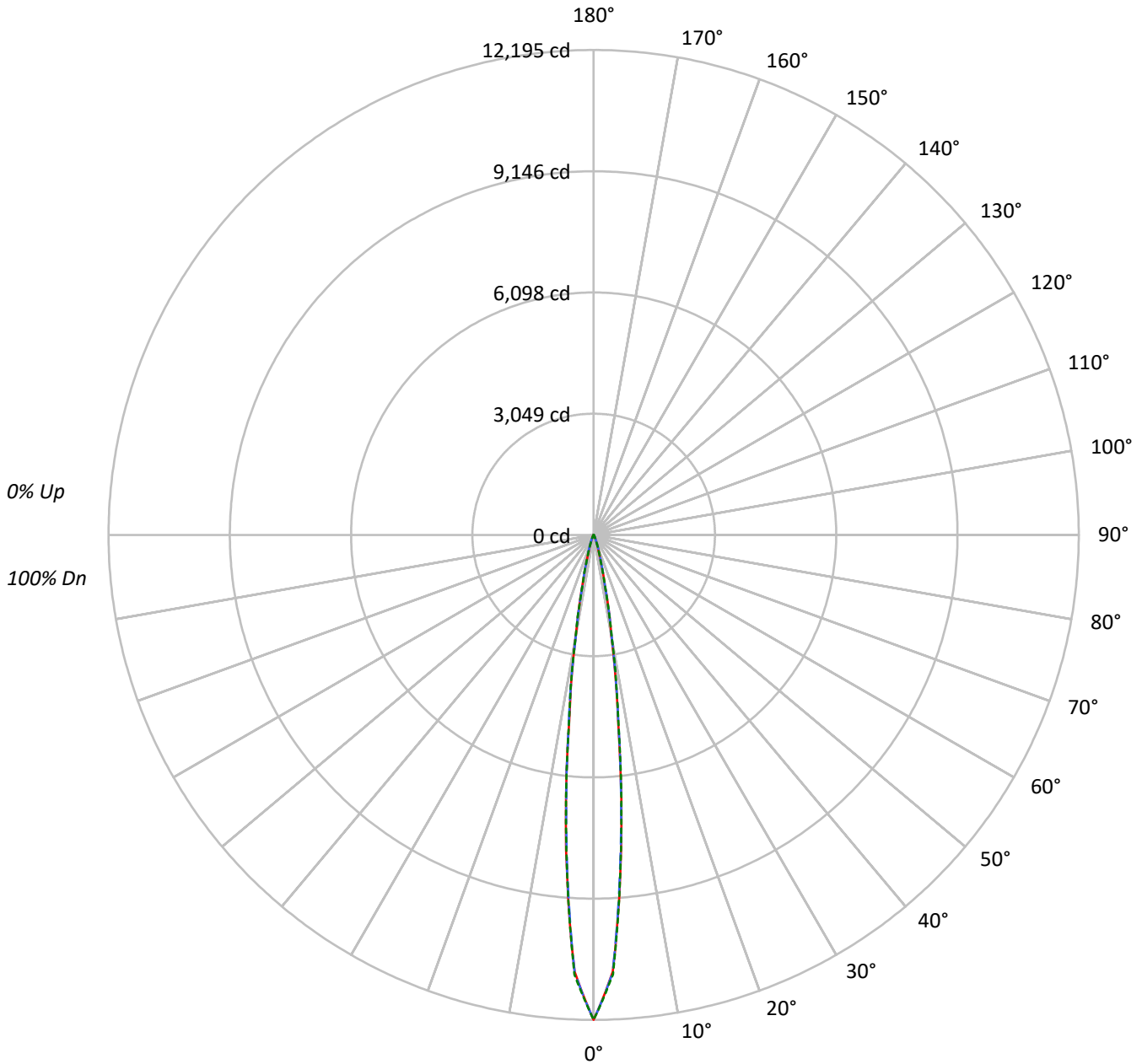
Downlight



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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					70					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	99	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°	1372147	1372147	1372147
5°	806344	795897	802198
10°	240659	242338	246052
15°	59862	61026	59141
20°	17911	20742	18287
25°	6318	8039	6396
30°	2321	3055	2359
35°	1162	1314	1126
40°	731	810	731
45°	539	581	539
50°	431	431	431
55°	362	362	362
60°	288	288	288
65°	221	221	221
70°	190	190	190
75°	113	113	159
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 581 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.5	64.9
10°-20°	238.8	26.7
20°-30°	47.4	5.3
30°-40°	11.8	1.3
40°-50°	6.2	0.7
50°-60°	4.6	0.5
60°-70°	3.3	0.4
70°-80°	1.8	0.2
80°-90°	0.5	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°	866.7	96.8
0°-40°	878.5	98.2
0°-60°	889.4	99.4
0°-90°	895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12195	12195	12195	12195	12195	
5°	7934	7853	7831	7886	7893	579
15°	689	702	703	690	681	236
25°	81	92	103	91	82	43
35°	16	17	18	17	16	11
45°	8	8	8	8	8	6
55°	5	5	5	5	5	5
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12194.7	12194.7	12194.7	12194.7	12194.7
2.5°	11000.1	11009.4	11013.0	11023.9	11064.1
5°	7934.2	7852.6	7831.4	7885.6	7893.4
7.5°	4699.9	4716.4	4776.8	4790.2	4741.7
10°	2579.2	2600.3	2597.2	2615.8	2637.0
12.5°	1319.0	1302.5	1297.3	1318.5	1289.1
15°	689.2	702.1	702.6	690.2	680.9
17.5°	370.7	385.6	410.4	390.3	359.3
20°	218.9	232.3	253.5	237.0	223.5
22.5°	135.3	146.1	161.1	148.2	137.3
25°	81.1	91.9	103.2	91.4	82.1
27.5°	48.0	57.3	64.5	56.8	47.5
30°	31.0	36.1	40.8	35.6	31.5
32.5°	21.7	23.7	25.8	23.7	21.7
35°	16.0	17.0	18.1	17.0	15.5
37.5°	12.4	13.4	13.9	12.9	11.9
40°	10.3	10.8	11.4	10.8	10.3
42.5°	8.8	9.3	9.3	9.3	8.8
45°	7.7	7.7	8.3	7.7	7.7
47.5°	6.7	6.7	7.2	6.7	6.7
50°	6.2	6.2	6.2	6.2	6.2
52.5°	5.7	5.7	5.7	5.7	5.7
55°	5.2	5.2	5.2	5.2	5.2
57.5°	4.6	4.6	4.6	4.6	4.6
60°	4.1	4.1	4.1	4.1	4.1
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	2.6	2.6	2.6	2.6	2.6
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.5	1.5	1.5	1.5	2.1
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5
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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