

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: P741889

Luminaire Tested: LD4D10D010-EU4DR150210IC9030-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741889
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-EU4DR150210IC9030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.2 lumens
Efficiency: N/A
Efficacy: 79.0 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): 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



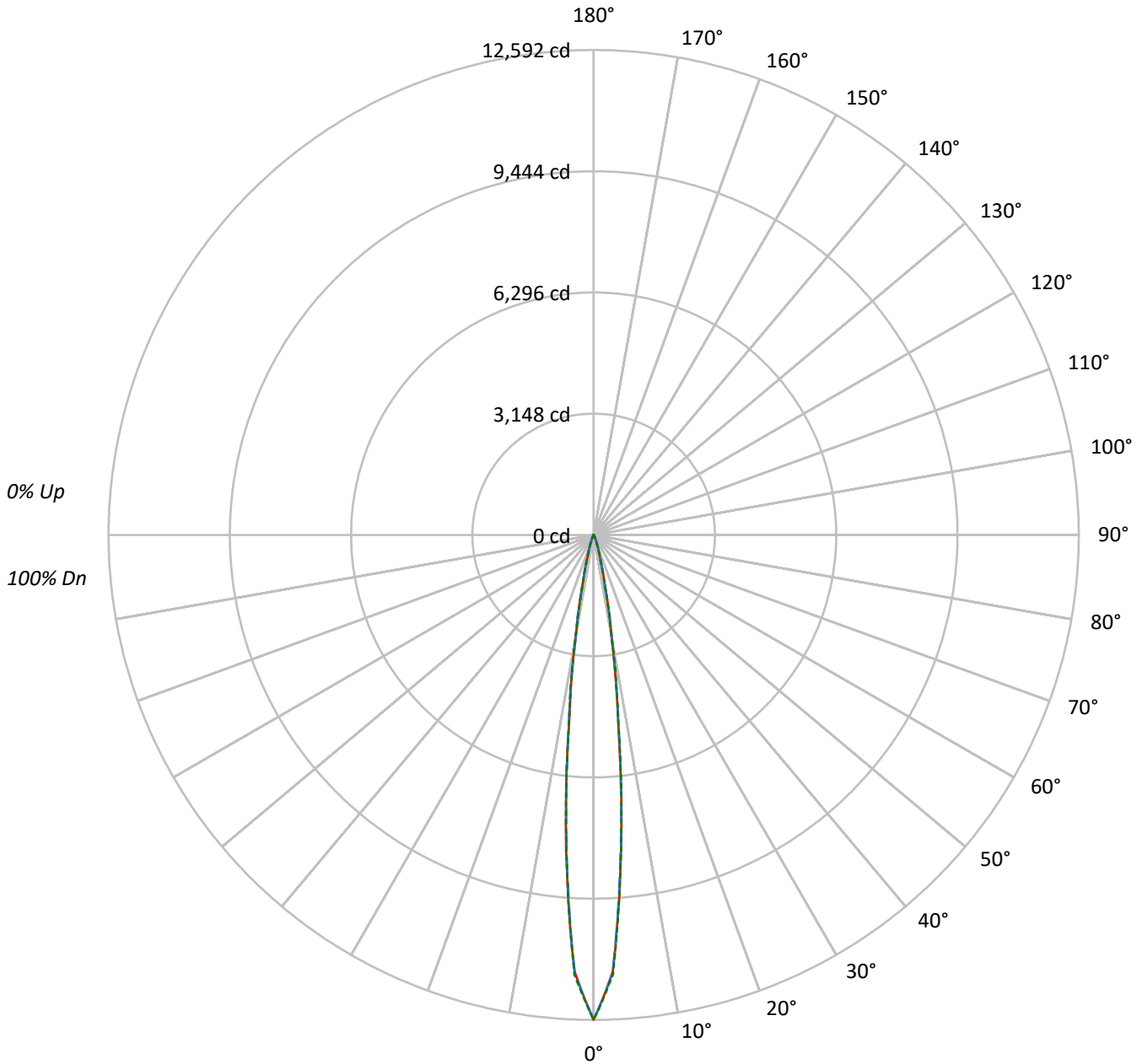
Downlight



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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									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	87	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°	1416817	1416817	1416817
5°	832595	821812	828316
10°	248487	250232	254058
15°	61807	63015	61069
20°	18492	21413	18885
25°	6520	8304	6606
30°	2396	3153	2434
35°	1198	1358	1162
40°	760	831	760
45°	560	595	560
50°	445	445	445
55°	369	369	369
60°	302	302	302
65°	228	228	228
70°	197	197	197
75°	121	121	159
80°	87	87	87
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.4	64.9
10°-20°	246.5	26.7
20°-30°	49.0	5.3
30°-40°	12.2	1.3
40°-50°	6.4	0.7
50°-60°	4.8	0.5
60°-70°	3.4	0.4
70°-80°	1.9	0.2
80°-90°	0.6	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°	894.9	96.8
0°-40°	907.1	98.2
0°-60°	918.3	99.4
0°-90°	924.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12592	12592	12592	12592	12592	
5°	8192	8108	8086	8142	8150	598
15°	712	725	726	713	703	244
25°	84	95	107	94	85	44
35°	16	18	19	18	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°	12591.7	12591.7	12591.7	12591.7	12591.7
2.5°	11358.3	11367.9	11371.6	11382.8	11424.4
5°	8192.5	8108.2	8086.4	8142.4	8150.4
7.5°	4852.9	4870.0	4932.3	4946.2	4896.1
10°	2663.1	2685.0	2681.8	2701.0	2722.8
12.5°	1361.9	1344.9	1339.6	1361.4	1331.0
15°	711.6	725.0	725.5	712.7	703.1
17.5°	382.7	398.2	423.8	403.0	371.0
20°	226.0	239.9	261.7	244.7	230.8
22.5°	139.7	150.9	166.3	153.0	141.8
25°	83.7	94.9	106.6	94.4	84.8
27.5°	49.6	59.2	66.6	58.6	49.0
30°	32.0	37.3	42.1	36.8	32.5
32.5°	22.4	24.5	26.7	24.5	22.4
35°	16.5	17.6	18.7	17.6	16.0
37.5°	12.8	13.9	14.4	13.3	12.3
40°	10.7	11.2	11.7	11.2	10.7
42.5°	9.1	9.6	9.6	9.6	9.1
45°	8.0	8.0	8.5	8.0	8.0
47.5°	6.9	6.9	7.5	6.9	6.9
50°	6.4	6.4	6.4	6.4	6.4
52.5°	5.9	5.9	5.9	5.9	5.9
55°	5.3	5.3	5.3	5.3	5.3
57.5°	4.8	4.8	4.8	4.8	4.8
60°	4.3	4.3	4.3	4.3	4.3
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	2.1
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
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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