

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: P739900

Luminaire Tested: LD4D05D010-EU4DR150210IC9050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739900
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: LD4D05D010-EU4DR150210IC9050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 630.0 lumens
Efficiency: N/A
Efficacy: 84.0 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): 7.5
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



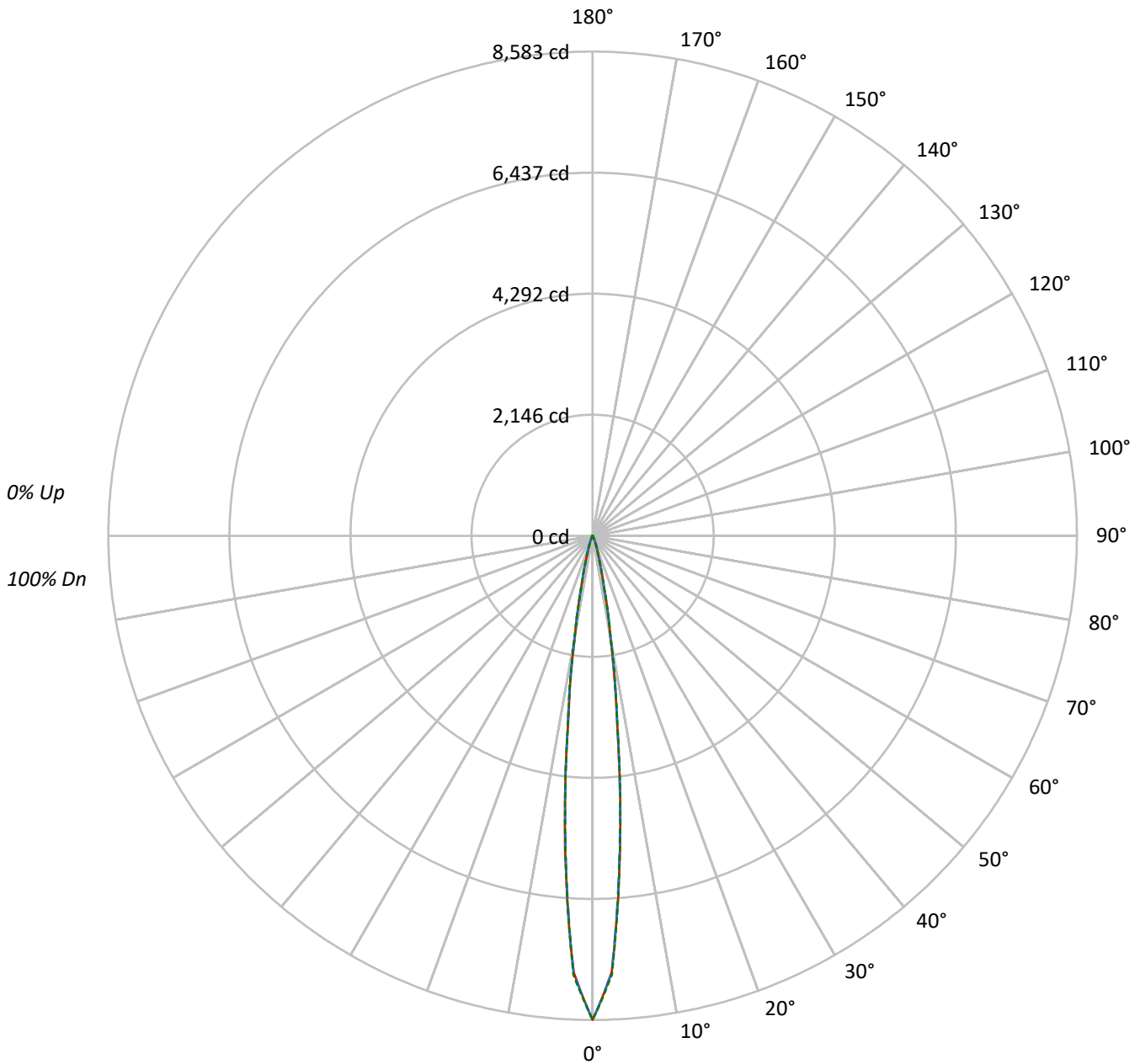
Downlight



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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°	965747	965747	965747
5°	567526	560179	564610
10°	169381	170566	173179
15°	42134	42951	41630
20°	12609	14597	12871
25°	4440	5663	4503
30°	1632	2149	1662
35°	821	922	792
40°	518	568	518
45°	385	406	385
50°	306	306	306
55°	251	251	251
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	113
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	64.9
10°-20°	168.1	26.7
20°-30°	33.4	5.3
30°-40°	8.3	1.3
40°-50°	4.4	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	610.0	96.8
0°-40°	618.3	98.2
0°-60°	626.0	99.4
0°-90°	630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8583	8583	8583	8583	8583	
5°	5584	5527	5512	5550	5556	408
15°	485	494	494	486	479	166
25°	57	65	73	64	58	30
35°	11	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8582.9	8582.9	8582.9	8582.9	8582.9
2.5°	7742.2	7748.7	7751.3	7758.9	7787.2
5°	5584.3	5526.8	5512.0	5550.1	5555.6
7.5°	3307.9	3319.5	3362.0	3371.5	3337.3
10°	1815.3	1830.2	1828.0	1841.1	1856.0
12.5°	928.3	916.7	913.1	928.0	907.3
15°	485.1	494.2	494.5	485.8	479.3
17.5°	260.9	271.4	288.9	274.7	252.9
20°	154.1	163.5	178.4	166.8	157.3
22.5°	95.2	102.8	113.4	104.3	96.6
25°	57.0	64.7	72.7	64.3	57.8
27.5°	33.8	40.3	45.4	40.0	33.4
30°	21.8	25.4	28.7	25.1	22.2
32.5°	15.3	16.7	18.2	16.7	15.3
35°	11.3	12.0	12.7	12.0	10.9
37.5°	8.7	9.4	9.8	9.1	8.4
40°	7.3	7.6	8.0	7.6	7.3
42.5°	6.2	6.5	6.5	6.5	6.2
45°	5.5	5.5	5.8	5.5	5.5
47.5°	4.7	4.7	5.1	4.7	4.7
50°	4.4	4.4	4.4	4.4	4.4
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
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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