

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: P739847

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739847
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-EU4DR150210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 508.6 lumens
Efficiency: N/A
Efficacy: 67.8 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



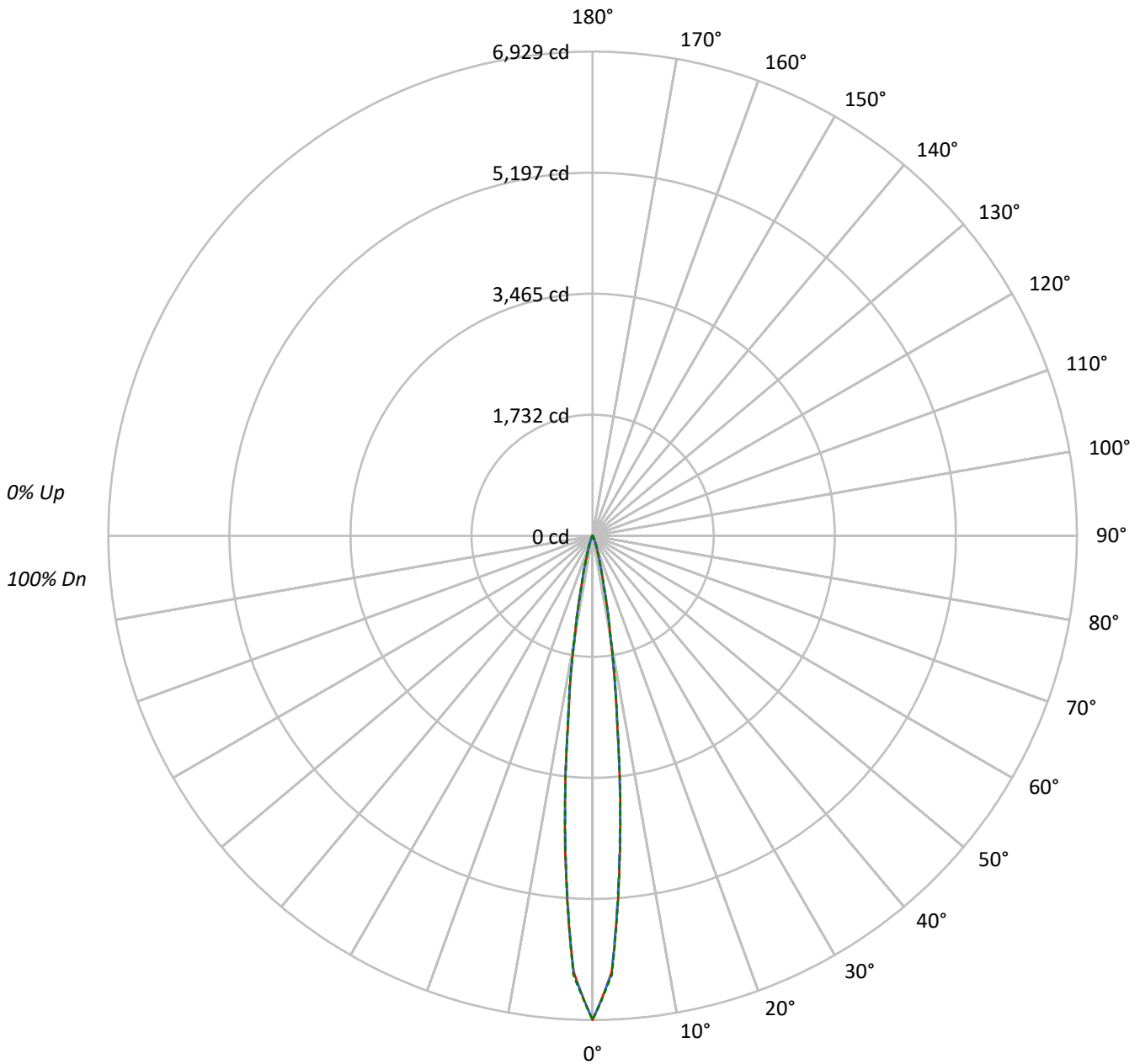
Downlight



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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°	779617	779617	779617
5°	458143	452208	455785
10°	136733	137694	139803
15°	34013	34673	33605
20°	10179	11782	10391
25°	3591	4573	3630
30°	1318	1737	1340
35°	661	748	639
40°	419	462	419
45°	308	329	308
50°	243	243	243
55°	202	202	202
60°	161	161	161
65°	128	128	128
70°	110	110	110
75°	68	68	91
80°	47	47	47
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.8	64.9
10°-20°	135.7	26.7
20°-30°	26.9	5.3
30°-40°	6.7	1.3
40°-50°	3.5	0.7
50°-60°	2.6	0.5
60°-70°	1.9	0.4
70°-80°	1.1	0.2
80°-90°	0.3	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°	492.4	96.8
0°-40°	499.2	98.1
0°-60°	505.3	99.4
0°-90°	508.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6929	6929	6929	6929	6929	
5°	4508	4462	4450	4480	4485	329
15°	392	399	399	392	387	134
25°	46	52	59	52	47	24
35°	9	10	10	10	9	6
45°	4	4	5	4	4	3
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6928.7	6928.7	6928.7	6928.7	6928.7
2.5°	6250.0	6255.3	6257.3	6263.5	6286.3
5°	4508.0	4461.6	4449.6	4480.4	4484.8
7.5°	2670.3	2679.7	2714.1	2721.7	2694.1
10°	1465.4	1477.4	1475.7	1486.2	1498.3
12.5°	749.4	740.0	737.1	749.1	732.4
15°	391.6	398.9	399.2	392.2	386.9
17.5°	210.6	219.1	233.2	221.7	204.1
20°	124.4	132.0	144.0	134.6	127.0
22.5°	76.8	83.0	91.5	84.2	78.0
25°	46.1	52.2	58.7	51.9	46.6
27.5°	27.3	32.6	36.7	32.3	27.0
30°	17.6	20.5	23.2	20.2	17.9
32.5°	12.3	13.5	14.7	13.5	12.3
35°	9.1	9.7	10.3	9.7	8.8
37.5°	7.0	7.6	7.9	7.3	6.7
40°	5.9	6.2	6.5	6.2	5.9
42.5°	5.0	5.3	5.3	5.3	5.0
45°	4.4	4.4	4.7	4.4	4.4
47.5°	3.8	3.8	4.1	3.8	3.8
50°	3.5	3.5	3.5	3.5	3.5
52.5°	3.2	3.2	3.2	3.2	3.2
55°	2.9	2.9	2.9	2.9	2.9
57.5°	2.6	2.6	2.6	2.6	2.6
60°	2.3	2.3	2.3	2.3	2.3
62.5°	2.1	2.1	2.1	2.1	2.1
65°	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8
70°	1.5	1.5	1.5	1.5	1.5
72.5°	1.2	1.2	1.2	1.2	1.2
75°	0.9	0.9	0.9	0.9	1.2
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.3	0.3	0.3	0.3
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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