

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: P744106

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR3020359027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1592.5 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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

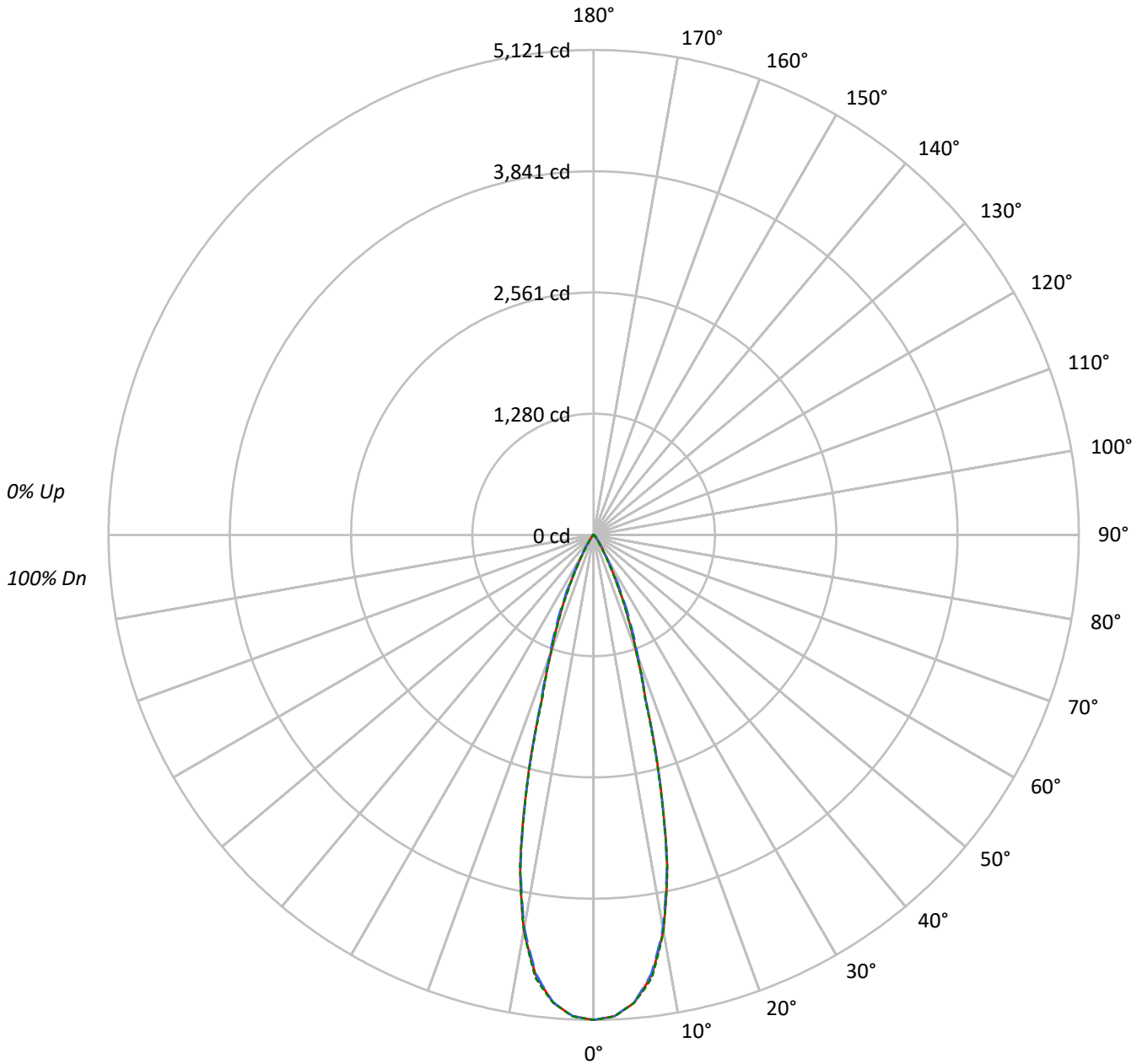


Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	391956	391956	391956
5°	380706	380260	380721
10°	329745	327421	329667
15°	215146	213989	212912
20°	106984	110992	106837
25°	53892	60766	52785
30°	21575	23510	18799
35°	10008	9587	8036
40°	4327	4796	4067
45°	3042	3778	3074
50°	1048	2751	1107
55°	601	1134	641
60°	429	505	429
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3778 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.3	28.3
10°-20°	725.2	45.5
20°-30°	313.4	19.7
30°-40°	71.4	4.5
40°-50°	24.5	1.5
50°-60°	6.0	0.4
60°-70°	1.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1488.9	93.5
0°-40°	1560.3	98.0
0°-60°	1590.8	99.9
0°-90°	1592.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1592.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5121	5121	5121	5121	5121	
5°	4955	4950	4949	4959	4955	451
15°	2715	2682	2700	2692	2687	727
25°	638	662	720	645	625	305
35°	107	109	103	102	86	73
45°	28	35	35	35	28	20
55°	4	5	8	5	5	4
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
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°	5120.7	5120.7	5120.7	5120.7	5120.7
2.5°	5086.8	5083.2	5085.2	5087.7	5088.8
5°	4954.8	4950.0	4949.0	4959.3	4955.0
7.5°	4688.5	4681.8	4671.4	4694.8	4716.7
10°	4242.5	4235.0	4212.6	4223.7	4241.5
12.5°	3584.1	3559.7	3559.2	3594.4	3589.6
15°	2715.0	2682.3	2700.4	2691.6	2686.8
17.5°	1825.7	1813.2	1837.3	1830.0	1798.5
20°	1313.4	1316.6	1362.6	1339.5	1311.6
22.5°	958.4	970.2	1024.7	965.1	943.3
25°	638.1	662.2	719.5	645.4	625.0
27.5°	392.5	403.5	461.6	387.4	376.4
30°	244.1	238.6	266.0	228.3	212.7
32.5°	160.1	153.1	161.9	145.3	132.8
35°	107.1	109.4	102.6	101.8	86.0
37.5°	66.9	76.9	67.9	72.4	55.3
40°	43.3	55.8	48.0	53.1	40.7
42.5°	35.5	43.0	39.5	42.0	36.2
45°	28.1	34.9	34.9	34.9	28.4
47.5°	15.6	23.4	29.9	23.9	16.6
50°	8.8	11.8	23.1	12.3	9.3
52.5°	6.0	6.8	15.8	7.0	6.3
55°	4.5	4.8	8.5	5.0	4.8
57.5°	3.5	3.8	4.5	3.8	3.5
60°	2.8	2.8	3.3	3.0	2.8
62.5°	2.0	2.0	2.2	2.0	2.0
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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