

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: P744157

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744157
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-EU4DR3020359040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1642.4 lumens
Efficiency: N/A
Efficacy: 71.1 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



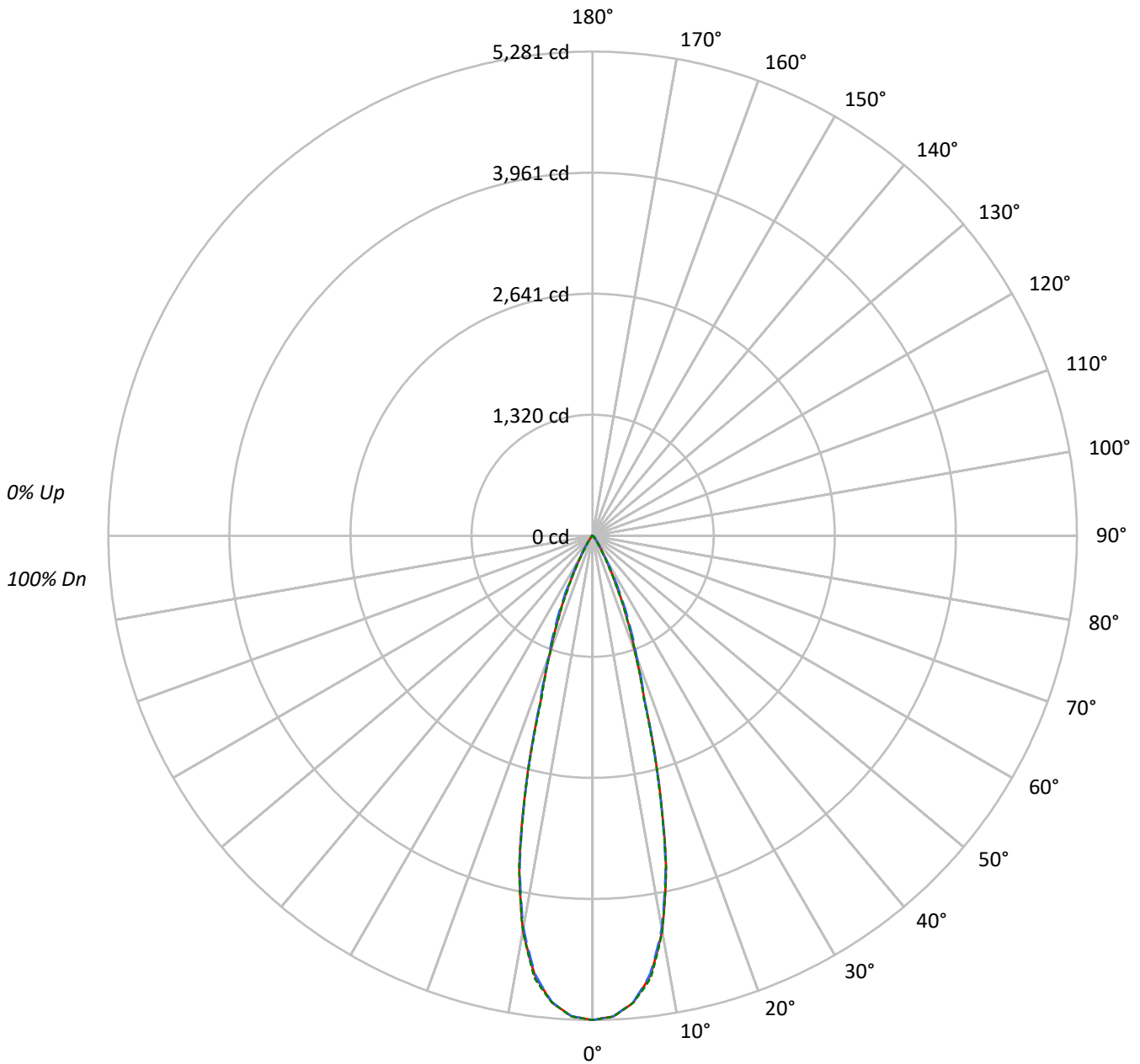
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	404233	404233	404233
5°	392623	392170	392646
10°	340074	337673	339997
15°	221882	220685	219584
20°	110332	114470	110185
25°	55572	62675	54441
30°	22255	24244	19383
35°	10325	9886	8288
40°	4456	4946	4197
45°	3139	3897	3172
50°	1084	2834	1143
55°	614	1174	654
60°	444	520	444
65°	272	272	272
70°	179	112	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.4	28.3
10°-20°	747.9	45.5
20°-30°	323.2	19.7
30°-40°	73.7	4.5
40°-50°	25.3	1.5
50°-60°	6.2	0.4
60°-70°	1.6	0.1
70°-80°	0.2	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°	1535.5	93.5
0°-40°	1609.2	98.0
0°-60°	1640.6	99.9
0°-90°	1642.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5281	5281	5281	5281	5281	
5°	5110	5105	5104	5115	5110	465
15°	2800	2766	2785	2776	2771	750
25°	658	683	742	666	645	315
35°	110	113	106	105	89	75
45°	29	36	36	36	29	21
55°	5	5	9	5	5	5
65°	2	2	2	2	2	2
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°	5281.1	5281.1	5281.1	5281.1	5281.1
2.5°	5246.1	5242.4	5244.5	5247.1	5248.1
5°	5109.9	5105.0	5104.0	5114.6	5110.2
7.5°	4835.4	4828.4	4817.7	4841.8	4864.4
10°	4375.4	4367.6	4344.5	4356.0	4374.4
12.5°	3696.3	3671.2	3670.7	3706.9	3702.0
15°	2800.0	2766.3	2784.9	2775.9	2771.0
17.5°	1882.9	1869.9	1894.9	1887.3	1854.9
20°	1354.5	1357.8	1405.3	1381.4	1352.7
22.5°	988.4	1000.5	1056.8	995.4	972.8
25°	658.0	683.0	742.1	665.6	644.6
27.5°	404.7	416.1	476.1	399.6	388.2
30°	251.8	246.1	274.3	235.4	219.3
32.5°	165.2	157.9	167.0	149.9	136.9
35°	110.5	112.8	105.8	105.0	88.7
37.5°	69.0	79.4	70.0	74.7	57.1
40°	44.6	57.6	49.5	54.7	42.0
42.5°	36.6	44.3	40.7	43.3	37.4
45°	29.0	36.0	36.0	36.0	29.3
47.5°	16.1	24.1	30.9	24.6	17.1
50°	9.1	12.2	23.8	12.7	9.6
52.5°	6.2	7.0	16.3	7.3	6.5
55°	4.6	4.9	8.8	5.2	4.9
57.5°	3.6	3.9	4.6	3.9	3.6
60°	2.9	2.9	3.4	3.1	2.9
62.5°	2.1	2.1	2.3	2.1	2.1
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.8	1.0	1.0	1.0	1.0
70°	0.8	0.5	0.5	0.5	0.8
72.5°	0.5	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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