

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P744131

Luminaire Tested: LD4D20D010-EU4DR3020359030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744131
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-EU4DR3020359030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1513.9 lumens
Efficiency: N/A
Efficacy: 65.5 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



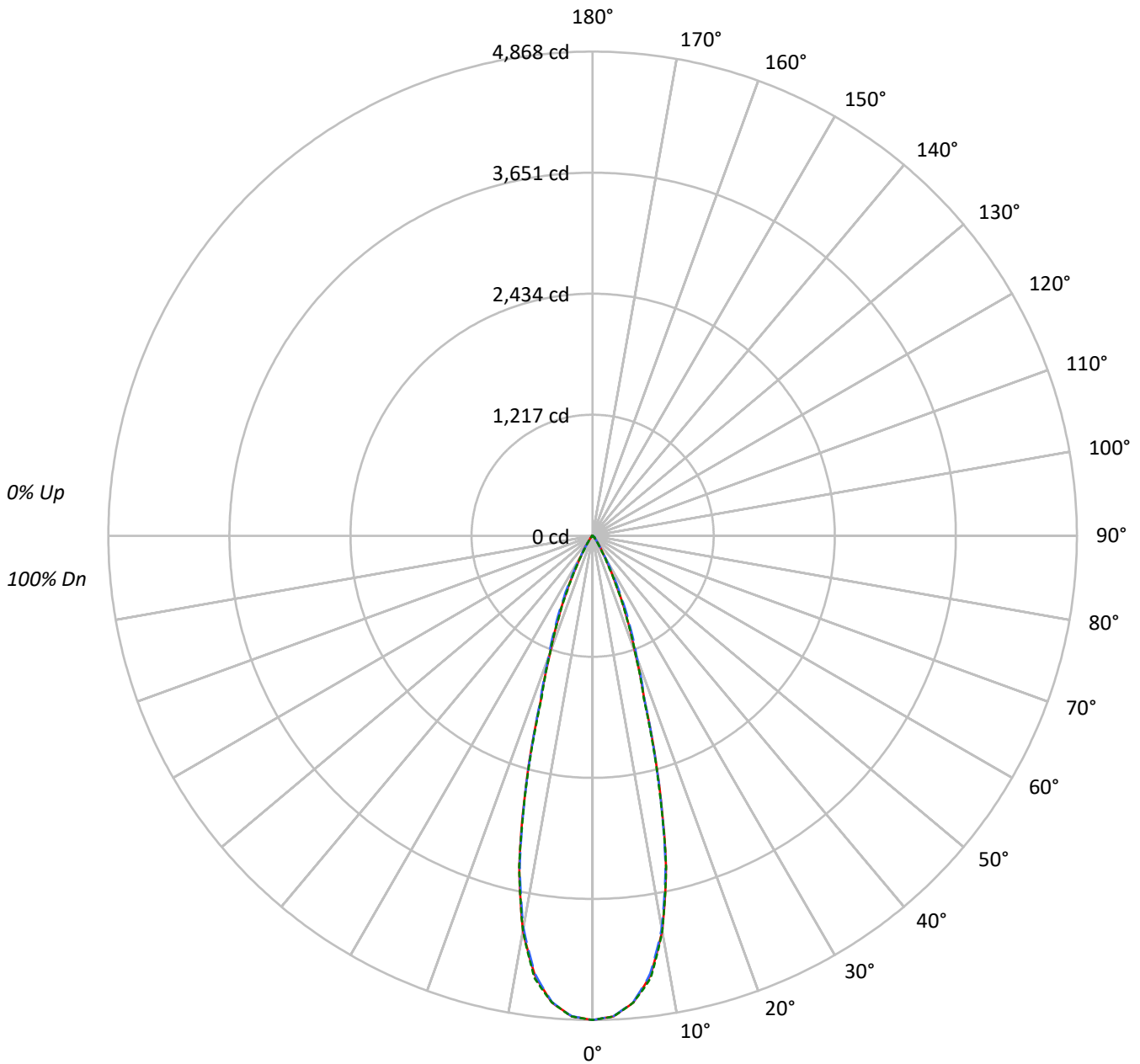
Downlight



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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°	372613	372613	372613
5°	361912	361489	361935
10°	313469	311262	313392
15°	204528	203426	202404
20°	101698	105518	101567
25°	51231	57768	50175
30°	20505	22344	17871
35°	9512	9111	7644
40°	4107	4566	3867
45°	2901	3594	2923
50°	1000	2620	1048
55°	574	1081	601
60°	398	475	398
65°	254	254	254
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: 3594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.1	28.3
10°-20°	689.4	45.5
20°-30°	297.9	19.7
30°-40°	67.9	4.5
40°-50°	23.3	1.5
50°-60°	5.7	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°	1415.4	93.5
0°-40°	1483.3	98.0
0°-60°	1512.3	99.9
0°-90°	1513.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4868	4868	4868	4868	4868	
5°	4710	4706	4705	4714	4710	428
15°	2581	2550	2567	2559	2554	691
25°	607	630	684	614	594	290
35°	102	104	98	97	82	69
45°	27	33	33	33	27	19
55°	4	4	8	5	4	4
65°	1	1	1	1	1	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°	4868.0	4868.0	4868.0	4868.0	4868.0
2.5°	4835.7	4832.3	4834.3	4836.6	4837.6
5°	4710.2	4705.6	4704.7	4714.5	4710.5
7.5°	4457.1	4450.7	4440.8	4463.1	4483.9
10°	4033.1	4026.0	4004.7	4015.2	4032.1
12.5°	3407.2	3384.0	3383.5	3417.0	3412.4
15°	2581.0	2549.9	2567.1	2558.7	2554.2
17.5°	1735.6	1723.7	1746.6	1739.7	1709.8
20°	1248.5	1251.7	1295.4	1273.4	1246.9
22.5°	911.0	922.3	974.2	917.5	896.7
25°	606.6	629.5	684.0	613.5	594.1
27.5°	373.1	383.6	438.8	368.3	357.8
30°	232.0	226.8	252.8	217.0	202.2
32.5°	152.2	145.5	153.9	138.1	126.2
35°	101.8	104.0	97.5	96.8	81.8
37.5°	63.6	73.1	64.5	68.8	52.6
40°	41.1	53.1	45.7	50.4	38.7
42.5°	33.7	40.9	37.5	39.9	34.4
45°	26.8	33.2	33.2	33.2	27.0
47.5°	14.8	22.2	28.4	22.7	15.8
50°	8.4	11.2	22.0	11.7	8.8
52.5°	5.7	6.5	15.1	6.7	6.0
55°	4.3	4.5	8.1	4.8	4.5
57.5°	3.3	3.6	4.3	3.6	3.3
60°	2.6	2.6	3.1	2.9	2.6
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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