

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: P744151

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744151
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-EU4DR3020359040-4LBDP1MW
Description: 4 INCH ROUND 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: 1742.6 lumens
Efficiency: N/A
Efficacy: 75.4 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



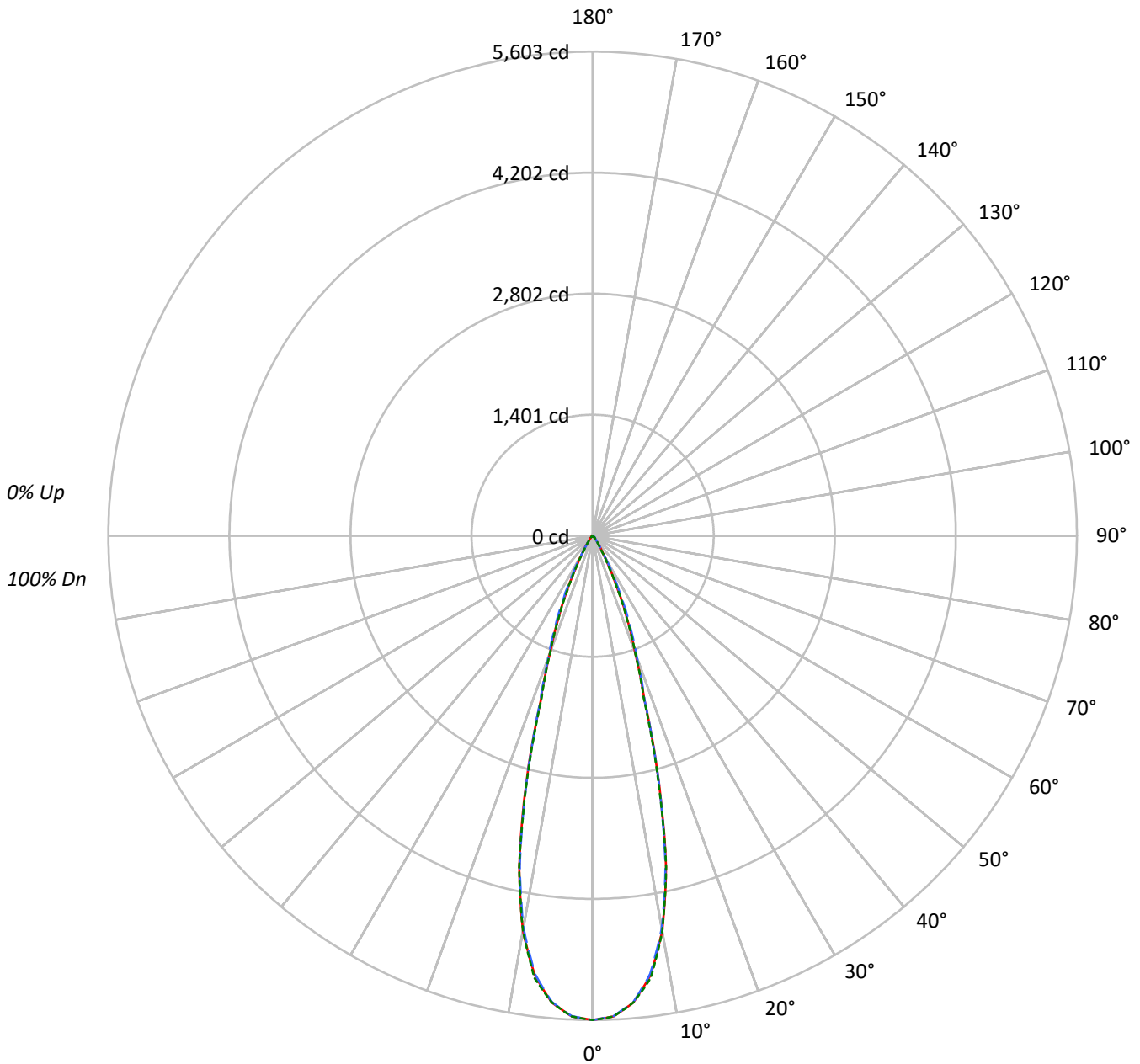
Downlight



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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																			
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	86	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°	428903	428903	428903
5°	416588	416104	416611
10°	360827	358285	360749
15°	235425	234157	232984
20°	117068	121459	116905
25°	58967	66492	57760
30°	23608	25729	20567
35°	10951	10484	8793
40°	4726	5246	4456
45°	3334	4135	3367
50°	1143	3013	1215
55°	654	1241	694
60°	459	551	459
65°	308	308	308
70°	179	134	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: 4135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.7	28.3
10°-20°	793.6	45.5
20°-30°	342.9	19.7
30°-40°	78.2	4.5
40°-50°	26.8	1.5
50°-60°	6.5	0.4
60°-70°	1.7	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°	1629.2	93.5
0°-40°	1707.3	98.0
0°-60°	1740.7	99.9
0°-90°	1742.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5603	5603	5603	5603	5603	
5°	5422	5417	5416	5427	5422	493
15°	2971	2935	2955	2945	2940	795
25°	698	725	787	706	684	334
35°	117	120	112	111	94	80
45°	31	38	38	38	31	22
55°	5	5	9	6	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°	5603.4	5603.4	5603.4	5603.4	5603.4
2.5°	5566.3	5562.4	5564.6	5567.4	5568.5
5°	5421.8	5416.6	5415.5	5426.8	5422.1
7.5°	5130.5	5123.0	5111.8	5137.4	5161.3
10°	4642.4	4634.2	4609.7	4621.8	4641.4
12.5°	3922.0	3895.3	3894.7	3933.2	3928.0
15°	2970.9	2935.1	2954.9	2945.3	2940.1
17.5°	1997.8	1984.1	2010.5	2002.5	1968.1
20°	1437.2	1440.7	1491.1	1465.8	1435.2
22.5°	1048.7	1061.6	1121.3	1056.1	1032.2
25°	698.2	724.6	787.3	706.2	683.9
27.5°	429.4	441.6	505.1	423.9	411.8
30°	267.1	261.1	291.1	249.8	232.7
32.5°	175.3	167.5	177.2	159.0	145.2
35°	117.2	119.7	112.2	111.4	94.1
37.5°	73.2	84.2	74.3	79.2	60.5
40°	47.3	61.1	52.5	58.0	44.6
42.5°	38.8	47.0	43.2	46.0	39.6
45°	30.8	38.2	38.2	38.2	31.1
47.5°	17.1	25.6	32.7	26.1	18.2
50°	9.6	12.9	25.3	13.5	10.2
52.5°	6.6	7.4	17.4	7.7	6.9
55°	4.9	5.2	9.3	5.5	5.2
57.5°	3.8	4.1	4.9	4.1	3.8
60°	3.0	3.0	3.6	3.3	3.0
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.6	0.6	0.6	0.8
72.5°	0.6	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

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

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