

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: P744125

Luminaire Tested: LD4D20D010-EU4DR3020359030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744125
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-EU4DR3020359030-4LBDP1MW
Description: 4 INCH ROUND 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: 1606.3 lumens
Efficiency: N/A
Efficacy: 69.5 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



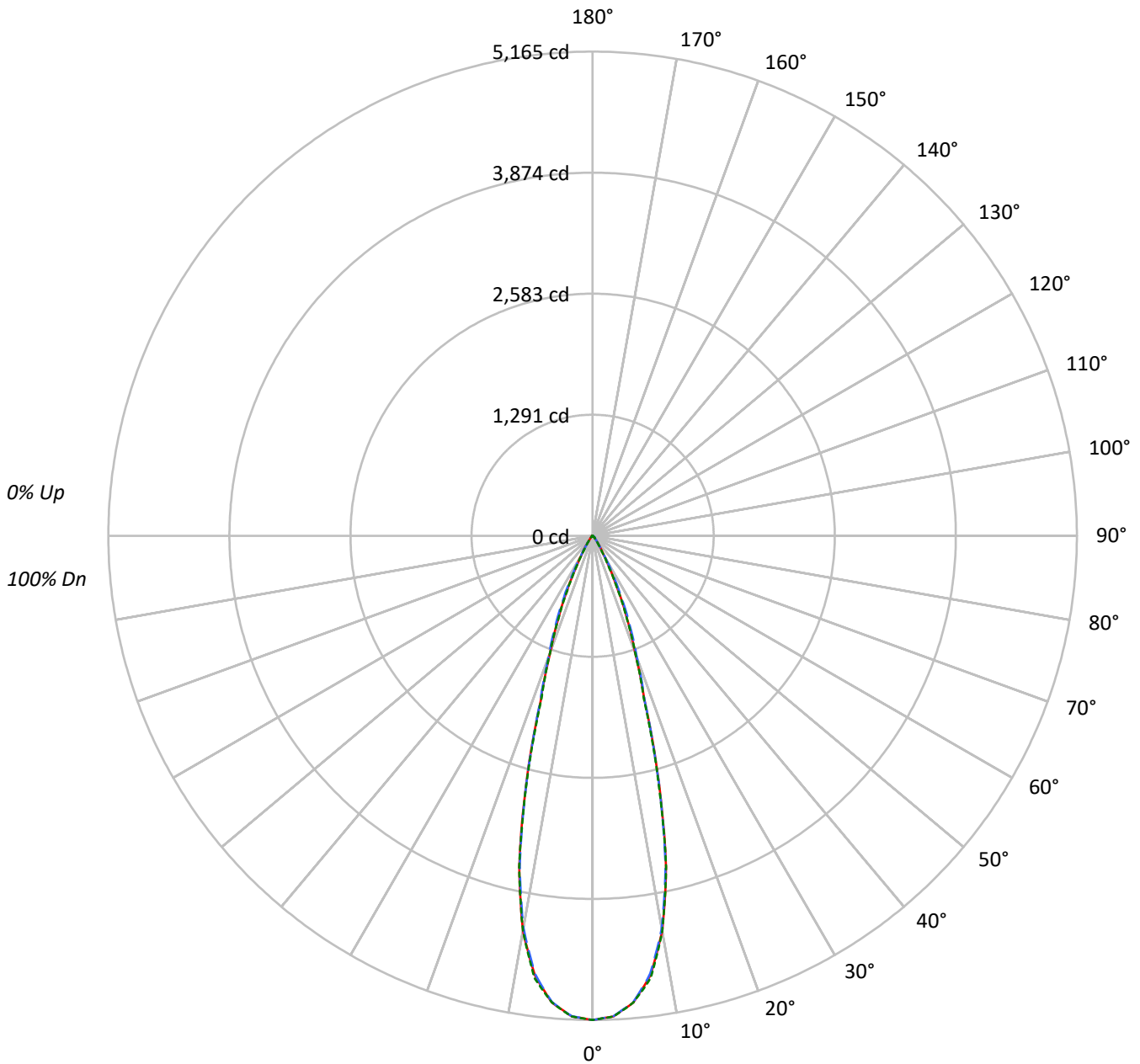
Downlight



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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																			
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°	395354	395354	395354
5°	384002	383557	384025
10°	332605	330258	332527
15°	217008	215844	214758
20°	107904	111961	107758
25°	54356	61298	53241
30°	21769	23714	18959
35°	10092	9671	8101
40°	4357	4836	4107
45°	3074	3810	3096
50°	1060	2775	1119
55°	614	1148	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: 3810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.2	28.3
10°-20°	731.5	45.5
20°-30°	316.1	19.7
30°-40°	72.0	4.5
40°-50°	24.7	1.5
50°-60°	6.1	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°	1501.8	93.5
0°-40°	1573.8	98.0
0°-60°	1604.6	99.9
0°-90°	1606.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5165	5165	5165	5165	5165	
5°	4998	4993	4992	5002	4998	455
15°	2738	2706	2724	2715	2710	733
25°	644	668	726	651	630	308
35°	108	110	104	103	87	73
45°	28	35	35	35	29	20
55°	5	5	9	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°	5165.1	5165.1	5165.1	5165.1	5165.1
2.5°	5130.8	5127.3	5129.3	5131.9	5132.8
5°	4997.7	4992.9	4991.9	5002.3	4998.0
7.5°	4729.1	4722.3	4711.9	4735.5	4757.6
10°	4279.3	4271.7	4249.1	4260.3	4278.3
12.5°	3615.1	3590.6	3590.1	3625.5	3620.7
15°	2738.5	2705.5	2723.8	2714.9	2710.1
17.5°	1841.6	1828.9	1853.2	1845.9	1814.2
20°	1324.7	1328.0	1374.5	1351.1	1322.9
22.5°	966.7	978.6	1033.6	973.5	951.4
25°	643.6	667.9	725.8	651.0	630.4
27.5°	395.9	407.0	465.6	390.8	379.6
30°	246.3	240.6	268.3	230.3	214.5
32.5°	161.5	154.4	163.3	146.6	133.9
35°	108.0	110.3	103.5	102.7	86.7
37.5°	67.4	77.6	68.5	73.1	55.8
40°	43.6	56.3	48.4	53.5	41.1
42.5°	35.8	43.4	39.8	42.3	36.5
45°	28.4	35.2	35.2	35.2	28.6
47.5°	15.7	23.6	30.2	24.1	16.7
50°	8.9	11.9	23.3	12.4	9.4
52.5°	6.1	6.9	16.0	7.1	6.4
55°	4.6	4.8	8.6	5.1	4.8
57.5°	3.6	3.8	4.6	3.8	3.6
60°	2.8	2.8	3.3	3.0	2.8
62.5°	2.0	2.0	2.3	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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