

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: P755344

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755344
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: LD4D90BD010-EU4DR3070959027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7267.7 lumens
Efficiency: N/A
Efficacy: 73.5 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): 98.9
Input Voltage (V): NR
Input Current (A_{in}): 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

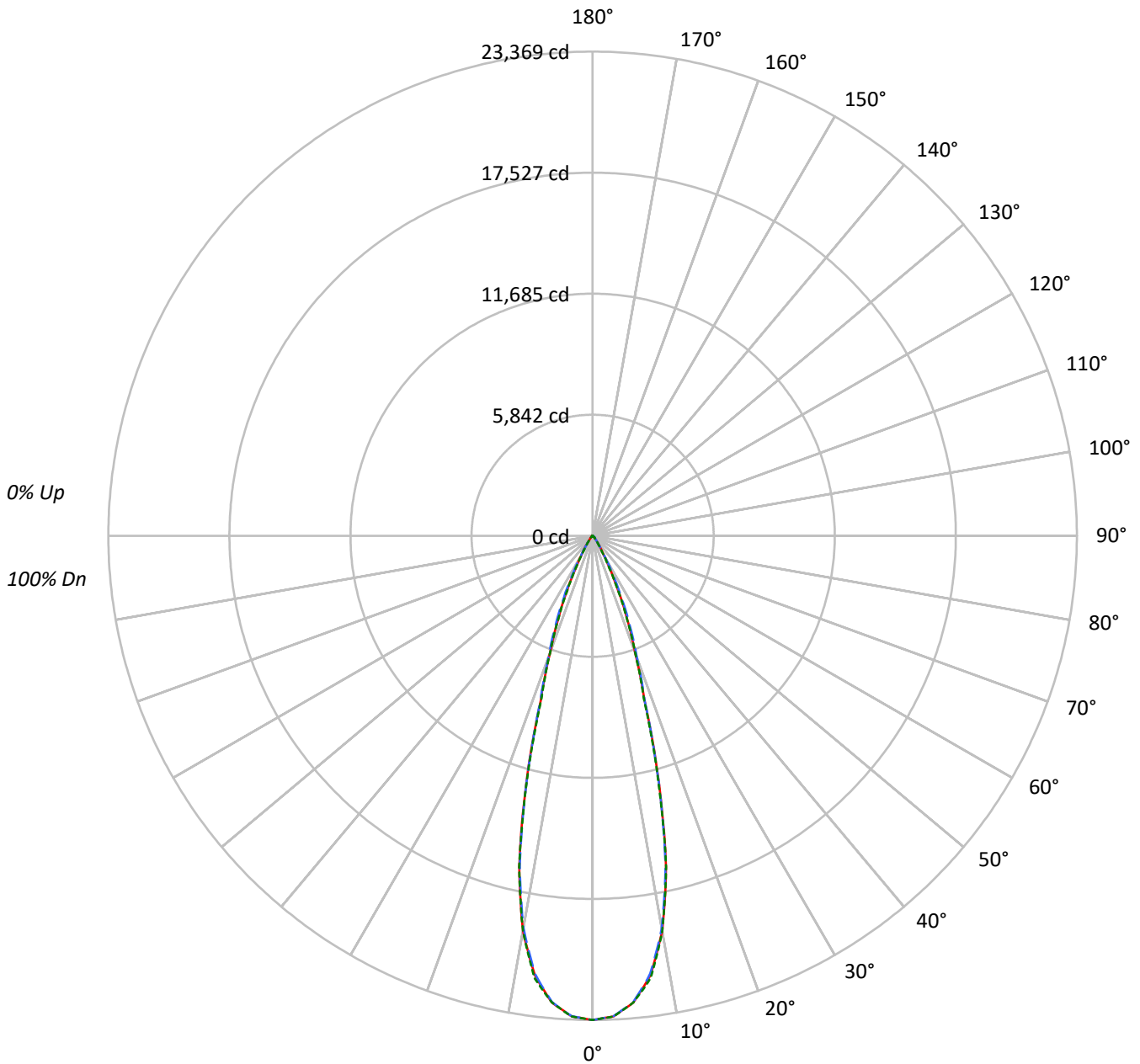


Downlight

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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°	1788750	1788750	1788750
5°	1737403	1735374	1737487
10°	1504849	1494240	1504492
15°	981843	976566	971661
20°	488222	506541	487570
25°	245937	277329	240895
30°	98469	107290	85795
35°	45675	43740	36667
40°	19714	21893	18575
45°	13910	17266	14029
50°	4787	12575	5061
55°	2762	5205	2909
60°	1929	2281	1929
65°	1250	1250	1250
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2055.0	28.3
10°-20°	3309.5	45.5
20°-30°	1430.1	19.7
30°-40°	326.0	4.5
40°-50°	111.9	1.5
50°-60°	27.3	0.4
60°-70°	7.1	0.1
70°-80°	0.7	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°	6794.6	93.5
0°-40°	7120.6	98.0
0°-60°	7259.8	99.9
0°-90°	7267.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7267.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23369	23369	23369	23369	23369	
5°	22612	22590	22586	22632	22613	2057
15°	12390	12241	12324	12284	12262	3318
25°	2912	3022	3284	2945	2852	1394
35°	489	499	468	465	392	332
45°	128	160	160	160	130	91
55°	21	22	39	23	22	20
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23369.1	23369.1	23369.1	23369.1	23369.1
2.5°	23214.2	23198.2	23207.3	23218.8	23223.4
5°	22611.9	22590.1	22585.5	22632.5	22613.0
7.5°	21396.8	21365.8	21318.8	21425.5	21525.3
10°	19361.4	19327.0	19224.9	19275.4	19356.8
12.5°	16356.5	16245.2	16243.0	16403.6	16381.8
15°	12390.2	12241.0	12323.6	12283.5	12261.7
17.5°	8332.0	8274.6	8384.8	8351.5	8208.1
20°	5993.7	6008.6	6218.6	6113.0	5985.7
22.5°	4373.7	4427.6	4676.6	4404.7	4304.8
25°	2912.0	3022.1	3283.7	2945.2	2852.3
27.5°	1791.0	1841.5	2106.5	1768.1	1717.6
30°	1114.1	1088.8	1213.9	1041.8	970.7
32.5°	730.9	698.7	738.9	663.2	605.8
35°	488.8	499.1	468.1	464.7	392.4
37.5°	305.2	351.1	309.8	330.4	252.4
40°	197.3	254.7	219.1	242.1	185.9
42.5°	161.8	196.2	180.1	191.6	165.2
45°	128.5	159.5	159.5	159.5	129.6
47.5°	71.1	106.7	136.5	109.0	75.7
50°	40.2	53.9	105.6	56.2	42.5
52.5°	27.5	31.0	72.3	32.1	28.7
55°	20.7	21.8	39.0	22.9	21.8
57.5°	16.1	17.2	20.7	17.2	16.1
60°	12.6	12.6	14.9	13.8	12.6
62.5°	9.2	9.2	10.3	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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