

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: P748341

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748341
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: LD4D45BD010-EU4DR3040509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW 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: 4026.4 lumens
Efficiency: N/A
Efficacy: 104.0 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): 38.7
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

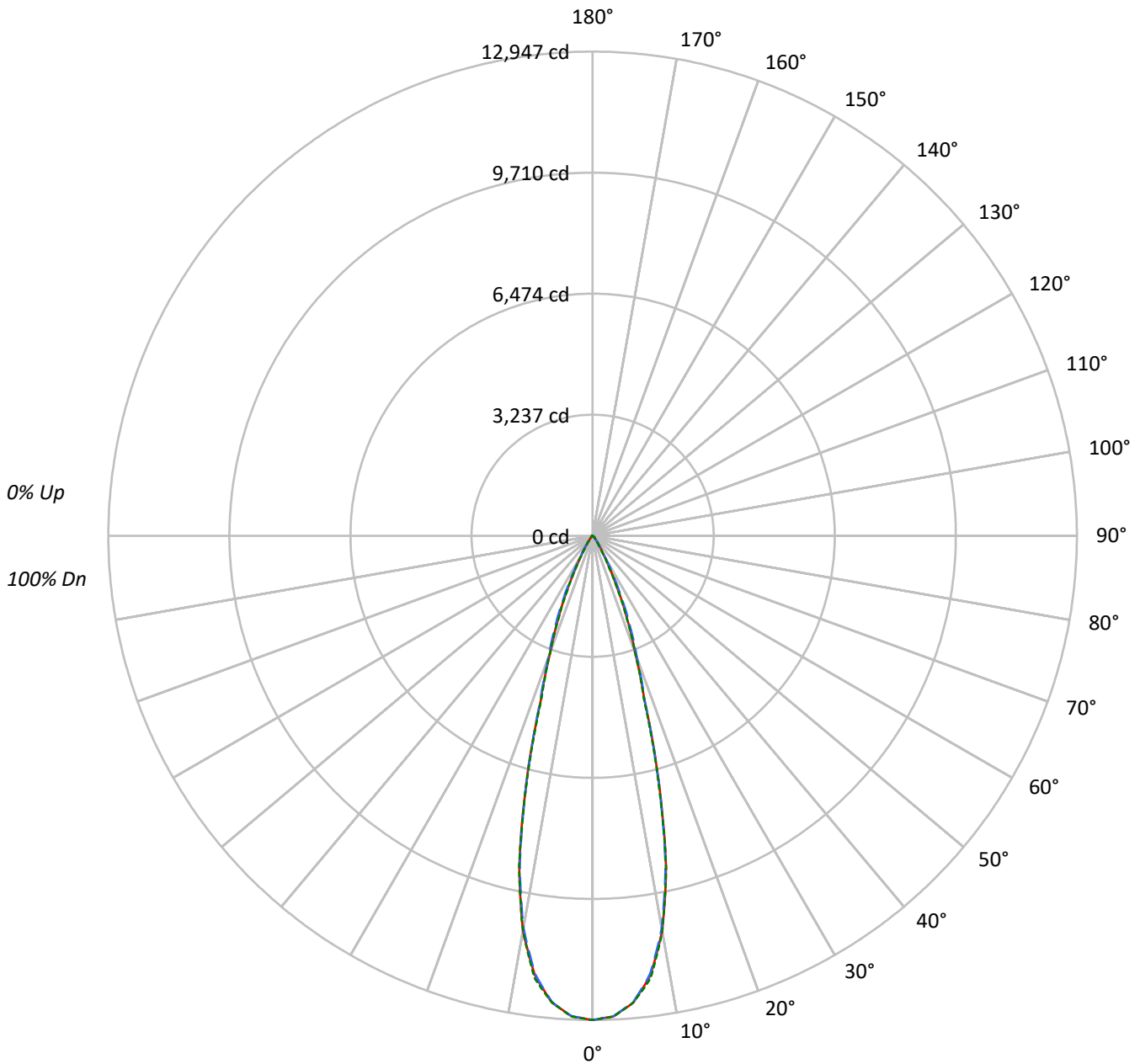


Downlight

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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	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°	991000	991000	991000
5°	962545	961423	962599
10°	833716	827833	833514
15°	543959	541035	538317
20°	270482	280631	270124
25°	136253	153643	133458
30°	54551	59439	47533
35°	25304	24230	20314
40°	10921	12130	10292
45°	7707	9569	7772
50°	2644	6966	2798
55°	1521	2883	1615
60°	1072	1271	1072
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9569 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.5	28.3
10°-20°	1833.5	45.5
20°-30°	792.3	19.7
30°-40°	180.6	4.5
40°-50°	62.0	1.5
50°-60°	15.1	0.4
60°-70°	3.9	0.1
70°-80°	0.4	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°	3764.3	93.5
0°-40°	3944.9	98.0
0°-60°	4022.1	99.9
0°-90°	4026.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12947	12947	12947	12947	12947	
5°	12527	12515	12513	12539	12528	1139
15°	6864	6782	6828	6805	6793	1838
25°	1613	1674	1819	1632	1580	772
35°	271	276	259	257	217	184
45°	71	88	88	88	72	51
55°	11	12	22	13	12	11
65°	4	4	4	4	4	4
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°	12946.9	12946.9	12946.9	12946.9	12946.9
2.5°	12861.1	12852.2	12857.2	12863.6	12866.1
5°	12527.3	12515.3	12512.7	12538.8	12528.0
7.5°	11854.2	11837.0	11811.0	11870.1	11925.4
10°	10726.6	10707.5	10650.9	10678.9	10724.0
12.5°	9061.8	9000.1	8998.9	9087.9	9075.8
15°	6864.4	6781.7	6827.5	6805.2	6793.2
17.5°	4616.1	4584.3	4645.3	4626.9	4547.4
20°	3320.6	3328.9	3445.2	3386.7	3316.2
22.5°	2423.1	2453.0	2590.9	2440.3	2385.0
25°	1613.3	1674.3	1819.2	1631.7	1580.2
27.5°	992.2	1020.2	1167.0	979.5	951.6
30°	617.2	603.2	672.5	577.2	537.8
32.5°	404.9	387.1	409.4	367.4	335.6
35°	270.8	276.5	259.3	257.4	217.4
37.5°	169.1	194.5	171.6	183.1	139.8
40°	109.3	141.1	121.4	134.1	103.0
42.5°	89.6	108.7	99.8	106.2	91.5
45°	71.2	88.4	88.4	88.4	71.8
47.5°	39.4	59.1	75.6	60.4	42.0
50°	22.2	29.9	58.5	31.1	23.5
52.5°	15.3	17.2	40.0	17.8	15.9
55°	11.4	12.1	21.6	12.7	12.1
57.5°	8.9	9.5	11.4	9.5	8.9
60°	7.0	7.0	8.3	7.6	7.0
62.5°	5.1	5.1	5.7	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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