

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: P748354

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748354
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-EU4DR3040509035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4068.8 lumens
Efficiency: N/A
Efficacy: 105.1 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

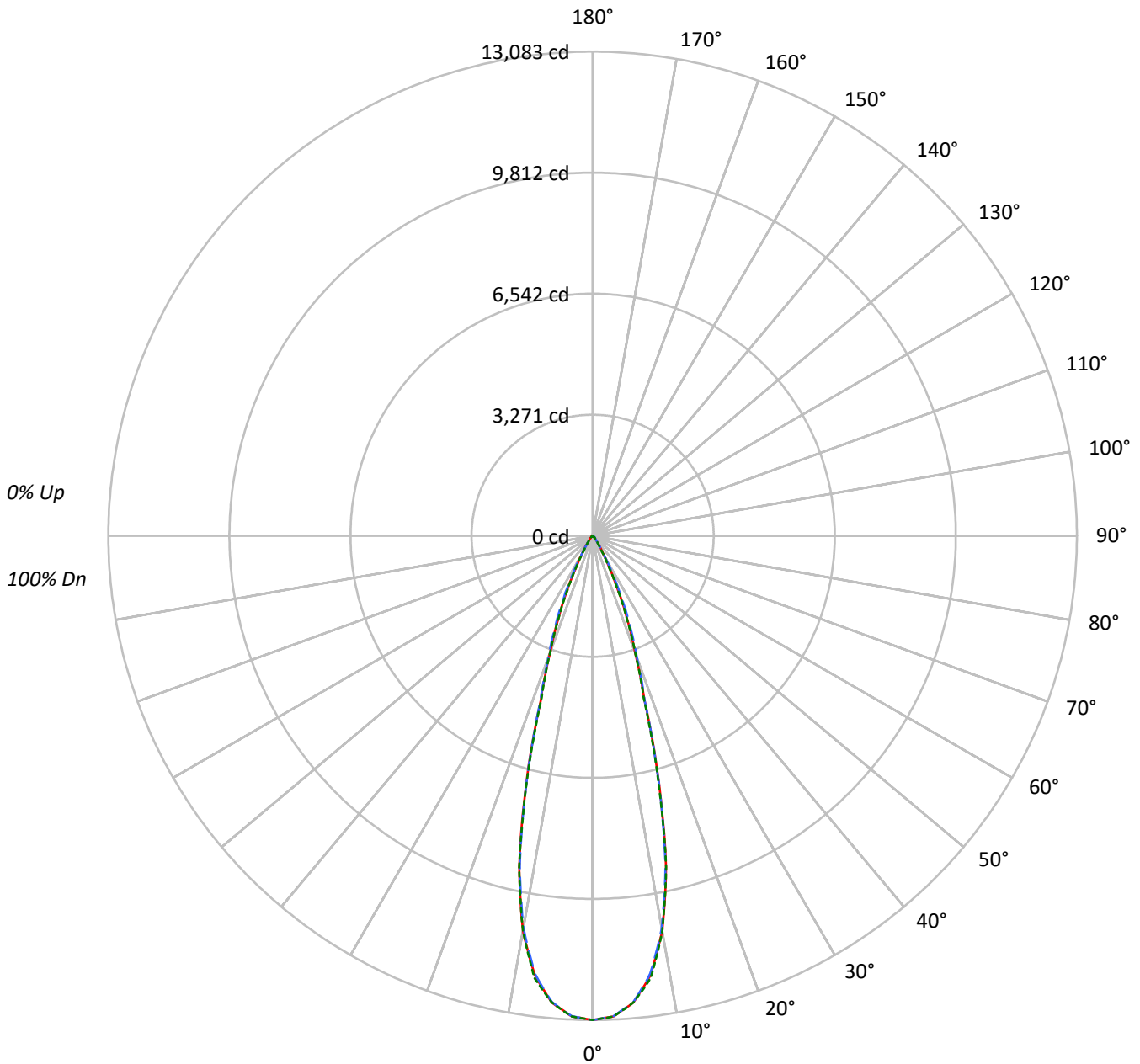


Downlight

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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°	1001433	1001433	1001433
5°	972687	971550	972733
10°	842491	836553	842297
15°	549689	546733	543983
20°	273333	283588	272966
25°	137689	155264	134868
30°	55126	60066	48028
35°	25566	24491	20529
40°	11041	12260	10402
45°	7783	9667	7859
50°	2679	7038	2834
55°	1548	2909	1628
60°	1087	1286	1087
65°	706	706	706
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: 9667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.5	28.3
10°-20°	1852.8	45.5
20°-30°	800.7	19.7
30°-40°	182.5	4.5
40°-50°	62.7	1.5
50°-60°	15.3	0.4
60°-70°	4.0	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°	3804.0	93.5
0°-40°	3986.5	98.0
0°-60°	4064.4	99.9
0°-90°	4068.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4068.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13083	13083	13083	13083	13083	
5°	12659	12647	12644	12671	12660	1151
15°	6937	6853	6899	6877	6865	1857
25°	1630	1692	1838	1649	1597	780
35°	274	279	262	260	220	186
45°	72	89	89	89	73	51
55°	12	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°	13083.2	13083.2	13083.2	13083.2	13083.2
2.5°	12996.5	12987.5	12992.7	12999.1	13001.7
5°	12659.3	12647.1	12644.5	12670.9	12659.9
7.5°	11979.1	11961.7	11935.4	11995.1	12051.0
10°	10839.5	10820.3	10763.1	10791.4	10837.0
12.5°	9157.2	9094.9	9093.7	9183.6	9171.4
15°	6936.7	6853.2	6899.4	6876.9	6864.7
17.5°	4664.7	4632.6	4694.2	4675.6	4595.3
20°	3355.6	3364.0	3481.5	3422.4	3351.1
22.5°	2448.6	2478.8	2618.2	2466.0	2410.1
25°	1630.3	1691.9	1838.4	1648.9	1596.9
27.5°	1002.7	1031.0	1179.3	989.9	961.6
30°	623.7	609.6	679.6	583.2	543.4
32.5°	409.2	391.2	413.7	371.3	339.2
35°	273.6	279.4	262.1	260.1	219.7
37.5°	170.9	196.6	173.4	185.0	141.3
40°	110.5	142.6	122.7	135.5	104.1
42.5°	90.6	109.8	100.8	107.3	92.5
45°	71.9	89.3	89.3	89.3	72.6
47.5°	39.8	59.7	76.4	61.0	42.4
50°	22.5	30.2	59.1	31.5	23.8
52.5°	15.4	17.3	40.5	18.0	16.1
55°	11.6	12.2	21.8	12.8	12.2
57.5°	9.0	9.6	11.6	9.6	9.0
60°	7.1	7.1	8.4	7.7	7.1
62.5°	5.1	5.1	5.8	5.1	5.1
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
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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