

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: P748315

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748315
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-EU4DR3040509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3450.2 lumens
Efficiency: N/A
Efficacy: 89.2 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

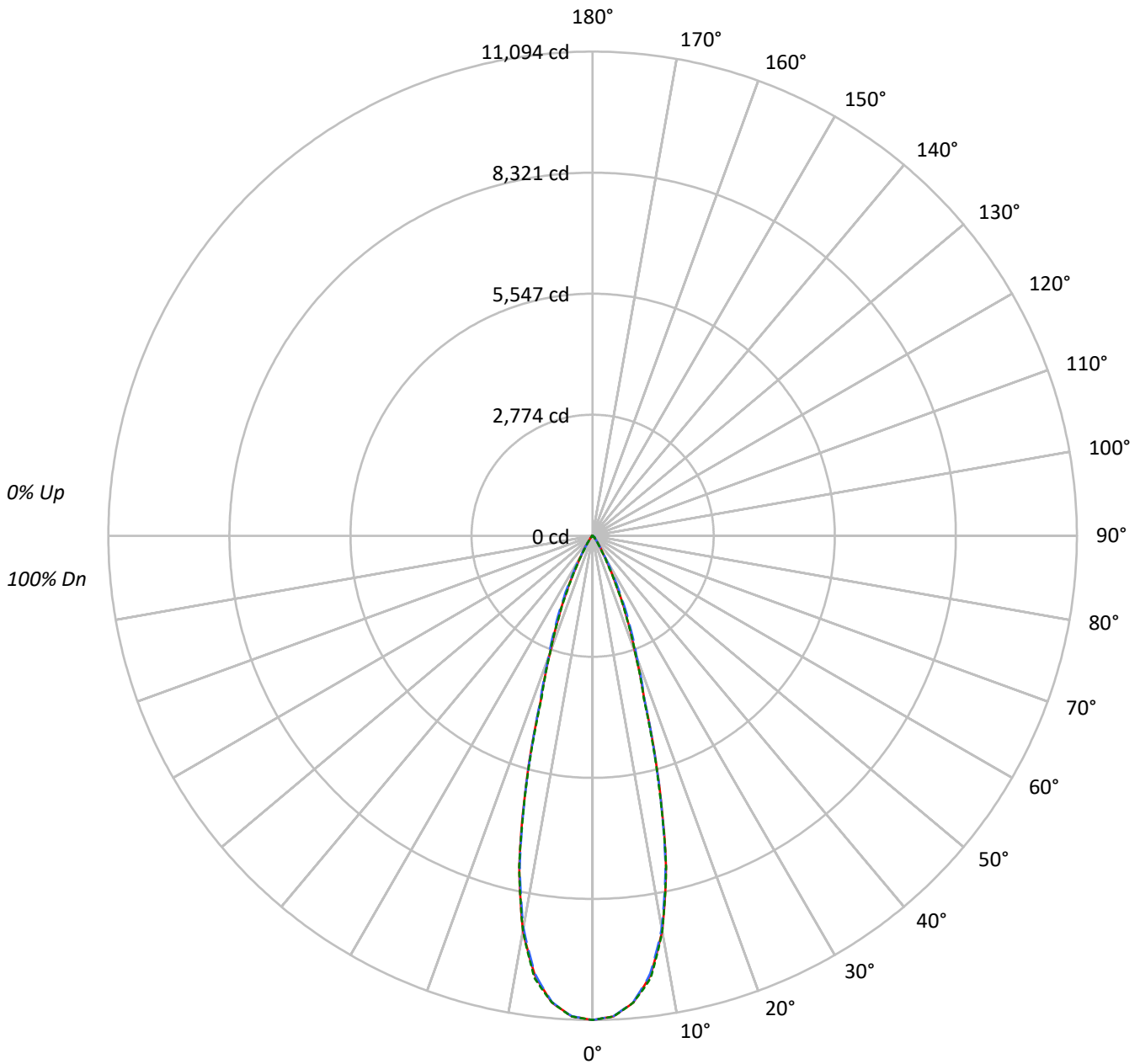


Downlight

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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	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°	849172	849172	849172
5°	824794	823833	824840
10°	714402	709358	714231
15°	466111	463606	461277
20°	231774	240474	231465
25°	116752	131659	114362
30°	46747	50936	40728
35°	21679	20763	17408
40°	9363	10392	8813
45°	6603	8194	6657
50°	2274	5966	2405
55°	1308	2469	1375
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8194 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.6	28.3
10°-20°	1571.1	45.5
20°-30°	678.9	19.7
30°-40°	154.7	4.5
40°-50°	53.1	1.5
50°-60°	13.0	0.4
60°-70°	3.4	0.1
70°-80°	0.3	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°	3225.6	93.5
0°-40°	3380.4	98.0
0°-60°	3446.5	99.9
0°-90°	3450.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3450.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11094	11094	11094	11094	11094	
5°	10734	10724	10722	10744	10735	976
15°	5882	5811	5850	5831	5821	1575
25°	1382	1435	1559	1398	1354	662
35°	232	237	222	221	186	157
45°	61	76	76	76	62	43
55°	10	10	18	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	11094.0	11094.0	11094.0	11094.0	11094.0
2.5°	11020.5	11012.9	11017.2	11022.7	11024.9
5°	10734.5	10724.2	10722.0	10744.3	10735.1
7.5°	10157.7	10143.0	10120.7	10171.3	10218.7
10°	9191.5	9175.1	9126.6	9150.6	9189.3
12.5°	7764.9	7712.1	7711.0	7787.3	7776.9
15°	5882.0	5811.2	5850.4	5831.3	5821.0
17.5°	3955.5	3928.2	3980.5	3964.7	3896.6
20°	2845.4	2852.5	2952.2	2902.1	2841.6
22.5°	2076.3	2101.9	2220.1	2091.0	2043.6
25°	1382.4	1434.7	1558.9	1398.2	1354.1
27.5°	850.2	874.2	1000.0	839.4	815.4
30°	528.9	516.9	576.3	494.6	460.8
32.5°	347.0	331.7	350.8	314.8	287.6
35°	232.0	236.9	222.2	220.6	186.3
37.5°	144.9	166.7	147.1	156.9	119.8
40°	93.7	120.9	104.0	114.9	88.2
42.5°	76.8	93.1	85.5	91.0	78.4
45°	61.0	75.7	75.7	75.7	61.5
47.5°	33.8	50.7	64.8	51.7	35.9
50°	19.1	25.6	50.1	26.7	20.2
52.5°	13.1	14.7	34.3	15.3	13.6
55°	9.8	10.3	18.5	10.9	10.3
57.5°	7.6	8.2	9.8	8.2	7.6
60°	6.0	6.0	7.1	6.5	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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