

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: P748324

Luminaire Tested: LD4D45BD010-EU4DR3040509027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748324
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-EU4DR3040509027-4LBDP1MW
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: 3484.5 lumens
Efficiency: N/A
Efficacy: 90.0 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

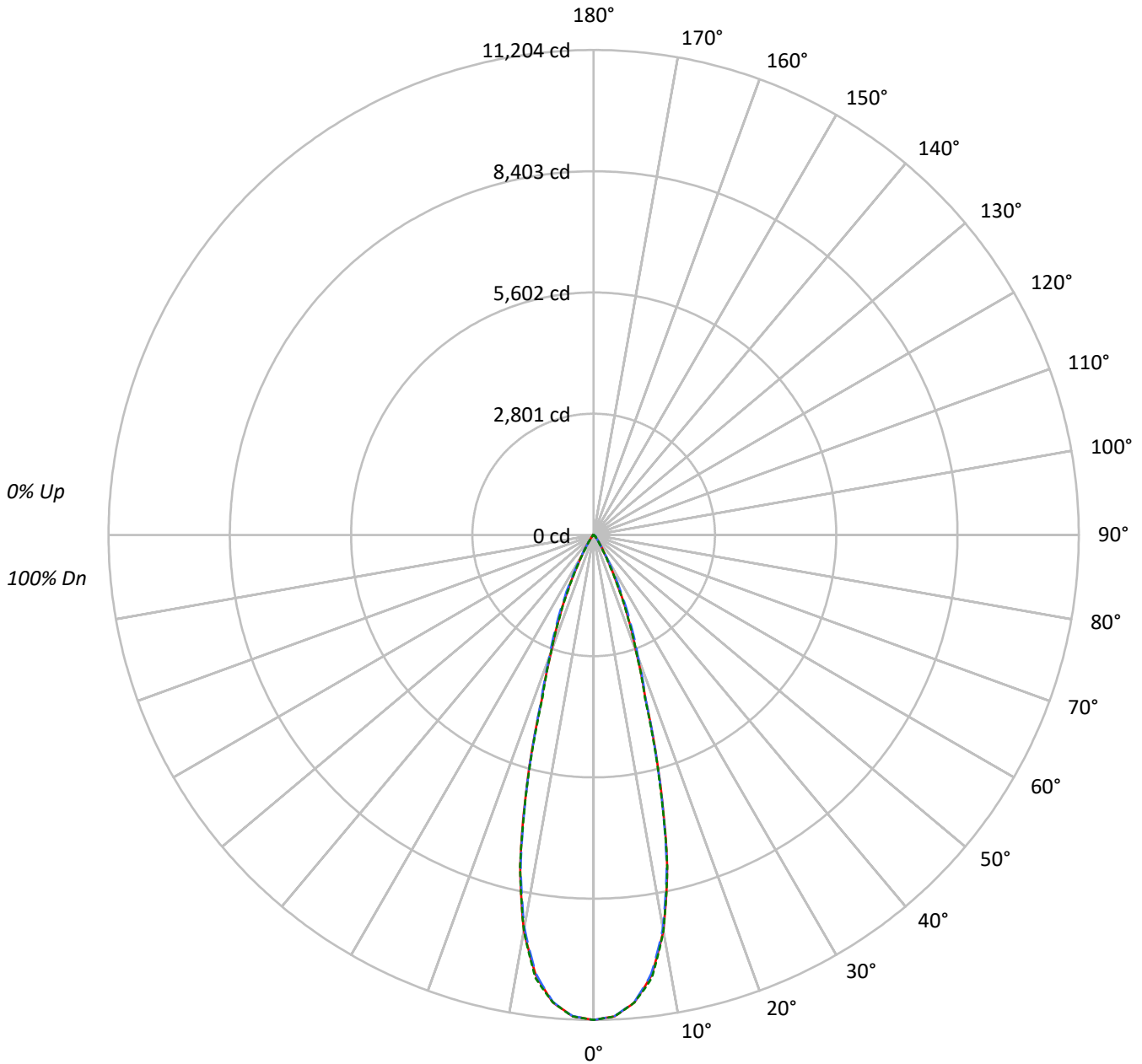


Downlight

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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	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°	857600	857600	857600
5°	832977	832001	833015
10°	721483	716400	721312
15°	470730	468203	465849
20°	234071	242852	233762
25°	117909	132960	115494
30°	47206	51440	41134
35°	21894	20968	17576
40°	9452	10502	8903
45°	6668	8281	6733
50°	2298	6025	2429
55°	1321	2496	1401
60°	934	1102	934
65°	598	598	598
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.2	28.3
10°-20°	1586.7	45.5
20°-30°	685.7	19.7
30°-40°	156.3	4.5
40°-50°	53.7	1.5
50°-60°	13.1	0.4
60°-70°	3.4	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°	3257.6	93.5
0°-40°	3413.9	98.0
0°-60°	3480.7	99.9
0°-90°	3484.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3484.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11204	11204	11204	11204	11204	
5°	10841	10830	10828	10851	10842	986
15°	5940	5869	5908	5889	5879	1591
25°	1396	1449	1574	1412	1368	668
35°	234	239	224	223	188	159
45°	62	76	76	76	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
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°	11204.1	11204.1	11204.1	11204.1	11204.1
2.5°	11129.8	11122.1	11126.5	11132.0	11134.2
5°	10841.0	10830.5	10828.3	10850.9	10841.5
7.5°	10258.5	10243.6	10221.1	10272.2	10320.1
10°	9282.6	9266.1	9217.2	9241.4	9280.4
12.5°	7842.0	7788.6	7787.5	7864.5	7854.1
15°	5940.3	5868.8	5908.4	5889.2	5878.7
17.5°	3994.7	3967.2	4020.0	4004.0	3935.3
20°	2873.6	2880.8	2981.4	2930.8	2869.8
22.5°	2096.9	2122.8	2242.1	2111.8	2063.9
25°	1396.1	1448.9	1574.3	1412.1	1367.5
27.5°	858.7	882.9	1009.9	847.7	823.5
30°	534.1	522.0	582.0	499.5	465.4
32.5°	350.4	335.0	354.3	317.9	290.4
35°	234.3	239.3	224.4	222.8	188.1
37.5°	146.3	168.3	148.5	158.4	121.0
40°	94.6	122.1	105.1	116.1	89.1
42.5°	77.6	94.1	86.4	91.9	79.2
45°	61.6	76.5	76.5	76.5	62.2
47.5°	34.1	51.2	65.5	52.3	36.3
50°	19.3	25.9	50.6	27.0	20.4
52.5°	13.2	14.9	34.7	15.4	13.8
55°	9.9	10.5	18.7	11.0	10.5
57.5°	7.7	8.3	9.9	8.3	7.7
60°	6.1	6.1	7.2	6.6	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	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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