

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: P752991

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752991
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: LD4D75BD010-EU4DR3070959024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5351.4 lumens
Efficiency: N/A
Efficacy: 73.9 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): 72.4
Input Voltage (V): NR
Input Current (Ain): 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

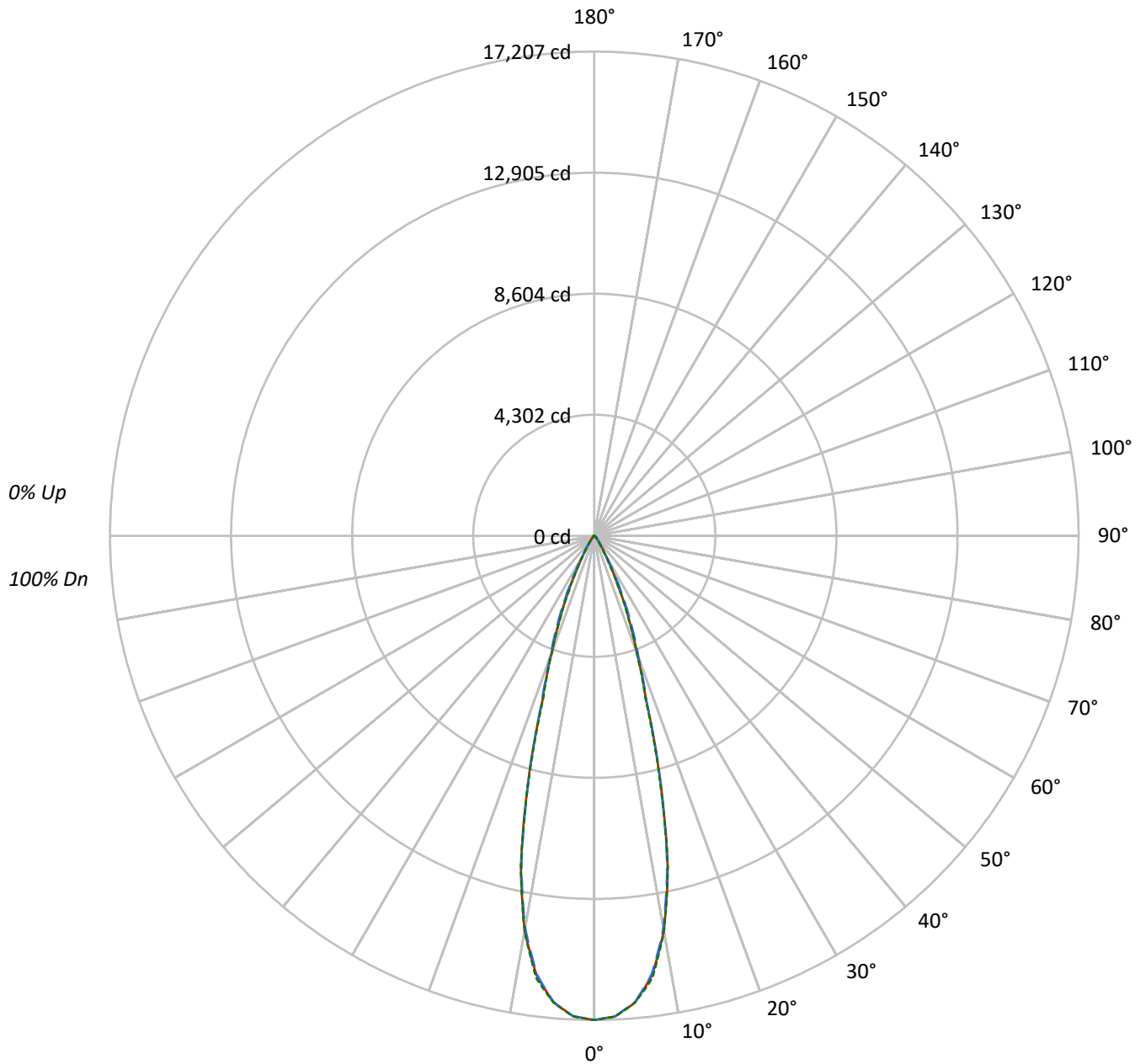


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1317113	1317113	1317113
5°	1279300	1277810	1279362
10°	1108067	1100256	1107803
15°	722963	719080	715458
20°	359497	372978	359008
25°	181091	204207	177375
30°	72502	78998	63169
35°	33630	32210	26995
40°	14518	16127	13679
45°	10240	12708	10338
50°	3525	9253	3727
55°	2028	3830	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1513.1	28.3
10°-20°	2436.9	45.5
20°-30°	1053.1	19.7
30°-40°	240.0	4.5
40°-50°	82.4	1.5
50°-60°	20.1	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	5003.1	93.5
0°-40°	5243.1	98.0
0°-60°	5345.7	99.9
0°-90°	5351.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5351.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17207	17207	17207	17207	17207	
5°	16650	16634	16630	16665	16651	1514
15°	9123	9013	9074	9045	9029	2443
25°	2144	2225	2418	2169	2100	1026
35°	360	368	345	342	289	244
45°	95	117	117	117	96	67
55°	15	16	29	17	16	15
65°	5	5	5	5	5	5
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°	17207.4	17207.4	17207.4	17207.4	17207.4
2.5°	17093.3	17081.5	17088.3	17096.7	17100.1
5°	16649.8	16633.7	16630.4	16665.0	16650.6
7.5°	15755.1	15732.3	15697.7	15776.2	15849.7
10°	14256.4	14231.1	14155.9	14193.0	14253.0
12.5°	12043.8	11961.9	11960.2	12078.5	12062.4
15°	9123.3	9013.4	9074.3	9044.7	9028.6
17.5°	6135.1	6092.9	6174.0	6149.5	6043.9
20°	4413.4	4424.3	4578.9	4501.2	4407.4
22.5°	3220.5	3260.2	3443.5	3243.3	3169.8
25°	2144.2	2225.3	2417.9	2168.7	2100.2
27.5°	1318.8	1355.9	1551.1	1301.9	1264.7
30°	820.3	801.7	893.8	767.1	714.7
32.5°	538.2	514.5	544.1	488.3	446.1
35°	359.9	367.5	344.7	342.2	288.9
37.5°	224.7	258.5	228.1	243.3	185.9
40°	145.3	187.6	161.4	178.3	136.9
42.5°	119.1	144.5	132.6	141.1	121.7
45°	94.6	117.4	117.4	117.4	95.5
47.5°	52.4	78.6	100.5	80.3	55.8
50°	29.6	39.7	77.7	41.4	31.3
52.5°	20.3	22.8	53.2	23.7	21.1
55°	15.2	16.1	28.7	16.9	16.1
57.5°	11.8	12.7	15.2	12.7	11.8
60°	9.3	9.3	11.0	10.1	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)