

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: P751457

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751457
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: LD4D65D010-EU4DR3055659030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 5796.7 lumens
Efficiency: N/A
Efficacy: 79.6 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): 72.8
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

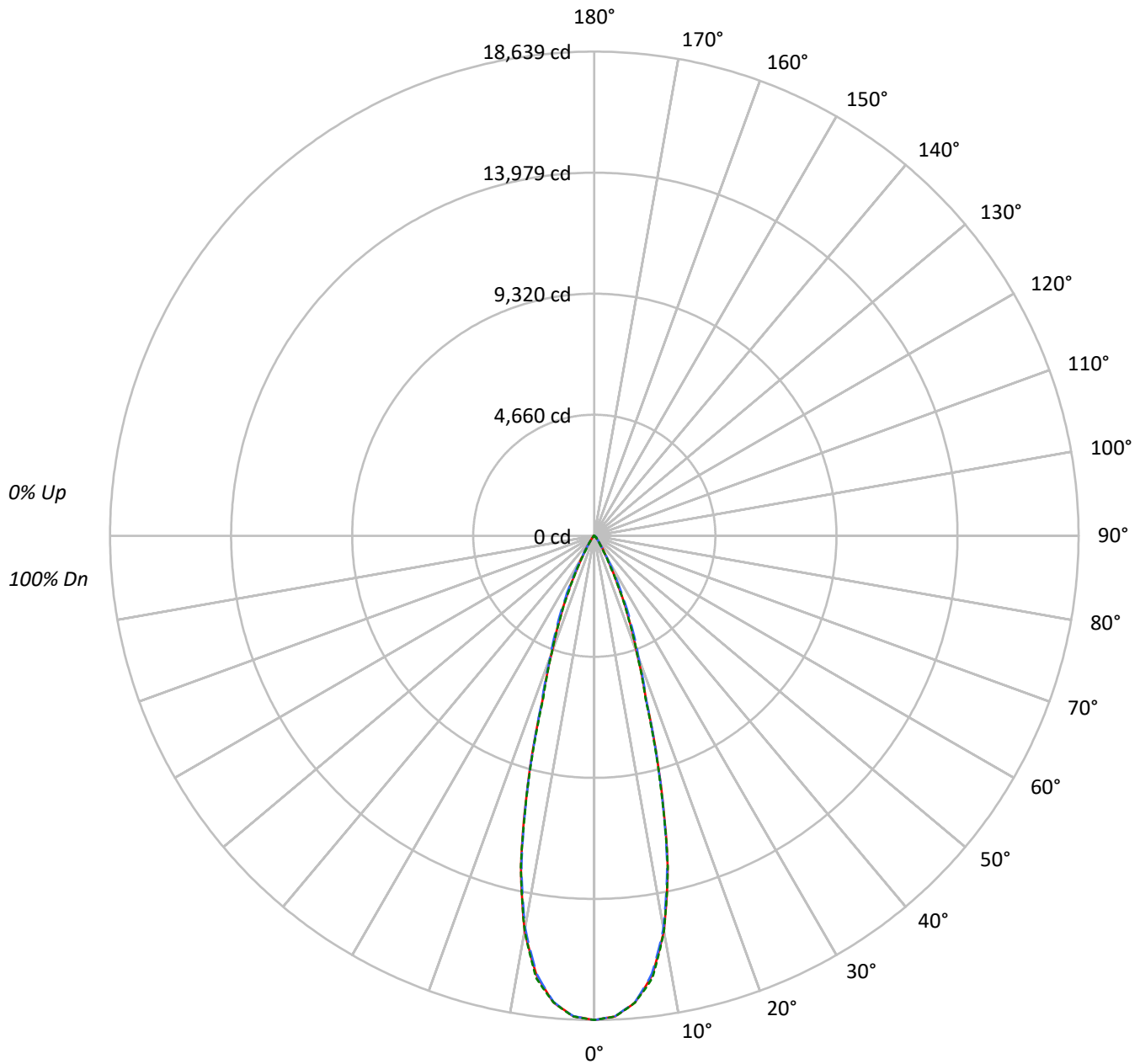


Downlight

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1426723	1426723	1426723
5°	1385764	1384150	1385833
10°	1200279	1191815	1199999
15°	783124	778917	775002
20°	389408	404021	388886
25°	196158	221199	192138
30°	78539	85574	68427
35°	36424	34891	29247
40°	15727	17466	14818
45°	11095	13769	11193
50°	3811	10027	4037
55°	2202	4150	2322
60°	1546	1822	1546
65°	996	996	996
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1639.1	28.3
10°-20°	2639.7	45.5
20°-30°	1140.7	19.7
30°-40°	260.0	4.5
40°-50°	89.3	1.5
50°-60°	21.8	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5419.4	93.5
0°-40°	5679.4	98.0
0°-60°	5790.5	99.9
0°-90°	5796.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5796.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18639	18639	18639	18639	18639	
5°	18035	18018	18014	18052	18036	1640
15°	9882	9764	9829	9797	9780	2646
25°	2323	2410	2619	2349	2275	1112
35°	390	398	373	371	313	264
45°	102	127	127	127	103	73
55°	16	17	31	18	17	16
65°	6	6	6	6	6	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°	18639.4	18639.4	18639.4	18639.4	18639.4
2.5°	18515.9	18503.0	18510.4	18519.5	18523.2
5°	18035.4	18018.0	18014.4	18051.9	18036.3
7.5°	17066.3	17041.6	17004.1	17089.2	17168.8
10°	15442.8	15415.4	15333.9	15374.2	15439.2
12.5°	13046.1	12957.4	12955.5	13083.6	13066.3
15°	9882.5	9763.5	9829.4	9797.4	9780.0
17.5°	6645.7	6599.9	6687.8	6661.2	6546.9
20°	4780.6	4792.5	4960.0	4875.8	4774.2
22.5°	3488.5	3531.5	3730.1	3513.2	3433.6
25°	2322.6	2410.5	2619.1	2349.1	2275.0
27.5°	1428.5	1468.8	1680.2	1410.2	1370.0
30°	888.6	868.5	968.2	830.9	774.2
32.5°	582.9	557.3	589.3	528.9	483.2
35°	389.8	398.1	373.4	370.6	313.0
37.5°	243.4	280.0	247.1	263.6	201.3
40°	157.4	203.2	174.8	193.1	148.3
42.5°	129.0	156.5	143.7	152.8	131.8
45°	102.5	127.2	127.2	127.2	103.4
47.5°	56.7	85.1	108.9	86.9	60.4
50°	32.0	43.0	84.2	44.8	33.9
52.5°	22.0	24.7	57.7	25.6	22.9
55°	16.5	17.4	31.1	18.3	17.4
57.5°	12.8	13.7	16.5	13.7	12.8
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.2	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.7	3.7	3.7	3.7	3.7
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)