

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: P752237

Luminaire Tested: LD4D70BD010-EU4DR3070959030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752237
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: LD4D70BD010-EU4DR3070959030-4LBDP1MW
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: 5908.8 lumens
Efficiency: N/A
Efficacy: 88.7 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): 66.6
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

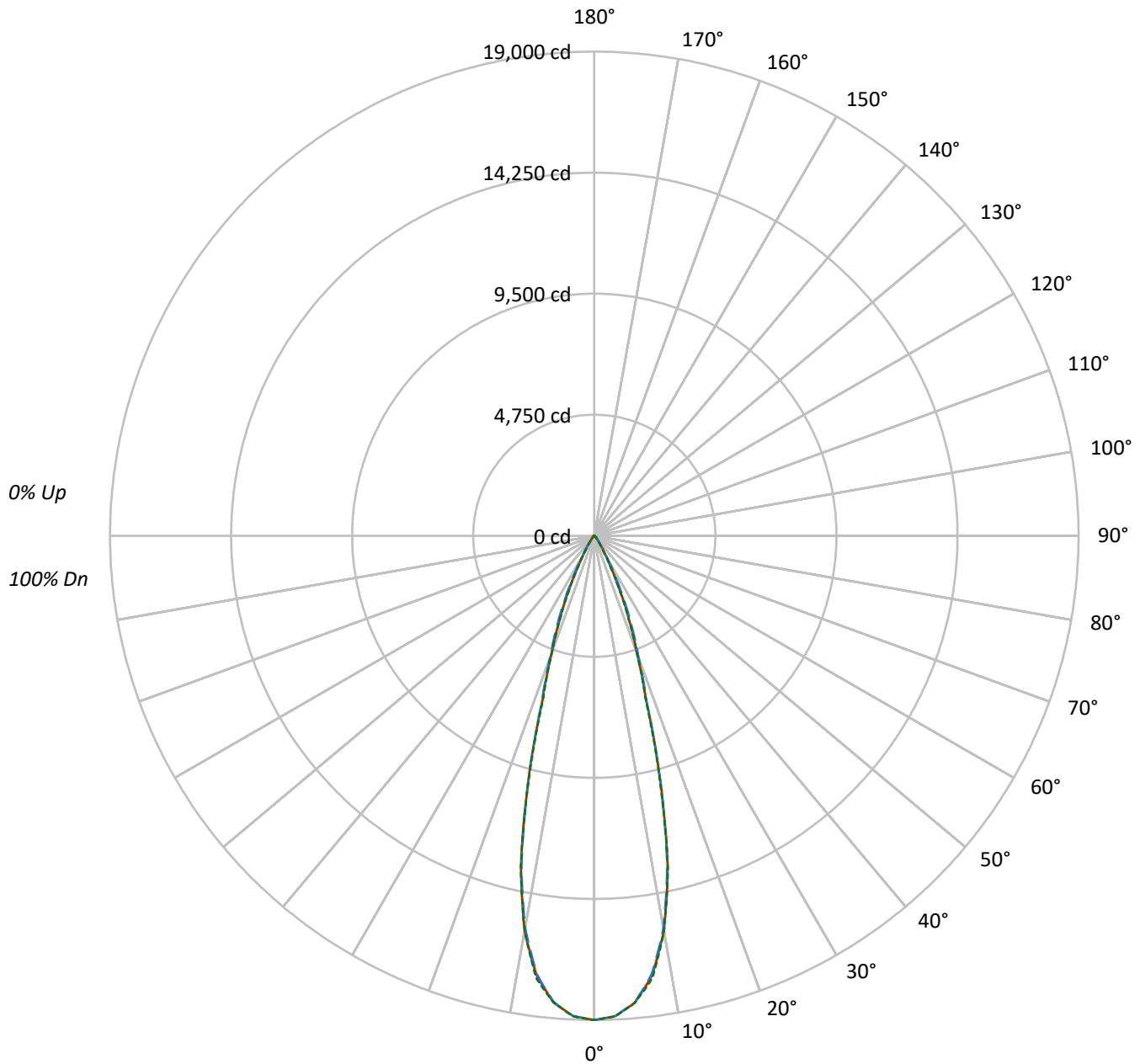


Downlight

TEST NUMBER: P752237

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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°	1454294	1454294	1454294
5°	1412541	1410889	1412610
10°	1223472	1214845	1223185
15°	798260	793973	789979
20°	396934	411832	396405
25°	199950	225473	195854
30°	80059	87227	69753
35°	37134	35564	29808
40°	16027	17806	15098
45°	11312	14040	11409
50°	3882	10217	4108
55°	2242	4230	2362
60°	1577	1852	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14040 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1670.7	28.3
10°-20°	2690.7	45.5
20°-30°	1162.7	19.7
30°-40°	265.0	4.5
40°-50°	91.0	1.5
50°-60°	22.2	0.4
60°-70°	5.8	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°	5524.2	93.5
0°-40°	5789.2	98.0
0°-60°	5902.4	99.9
0°-90°	5908.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5908.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19000	19000	19000	19000	19000	
5°	18384	18366	18362	18401	18385	1672
15°	10074	9952	10019	9987	9969	2697
25°	2368	2457	2670	2394	2319	1133
35°	397	406	381	378	319	270
45°	104	130	130	130	105	74
55°	17	18	32	19	18	16
65°	6	6	6	6	6	6
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°	18999.6	18999.6	18999.6	18999.6	18999.6
2.5°	18873.6	18860.6	18868.0	18877.4	18881.1
5°	18383.9	18366.2	18362.4	18400.7	18384.8
7.5°	17396.1	17370.9	17332.6	17419.4	17500.5
10°	15741.2	15713.3	15630.2	15671.3	15737.5
12.5°	13298.2	13207.7	13205.8	13336.4	13318.7
15°	10073.5	9952.2	10019.4	9986.7	9969.0
17.5°	6774.1	6727.5	6817.0	6790.0	6673.4
20°	4873.0	4885.1	5055.9	4970.0	4866.5
22.5°	3555.9	3599.7	3802.2	3581.1	3499.9
25°	2367.5	2457.0	2669.7	2394.5	2319.0
27.5°	1456.1	1497.2	1712.6	1437.5	1396.4
30°	905.8	885.2	986.9	847.0	789.2
32.5°	594.2	568.1	600.7	539.2	492.5
35°	397.4	405.8	380.6	377.8	319.0
37.5°	248.1	285.4	251.9	268.7	205.2
40°	160.4	207.1	178.2	196.8	151.1
42.5°	131.5	159.5	146.5	155.8	134.3
45°	104.5	129.7	129.7	129.7	105.4
47.5°	57.8	86.8	111.0	88.6	61.6
50°	32.6	43.8	85.8	45.7	34.5
52.5°	22.4	25.2	58.8	26.1	23.3
55°	16.8	17.7	31.7	18.7	17.7
57.5°	13.1	14.0	16.8	14.0	13.1
60°	10.3	10.3	12.1	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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)