

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: P752211

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752211
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-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: 5063.2 lumens
Efficiency: N/A
Efficacy: 76.0 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): 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

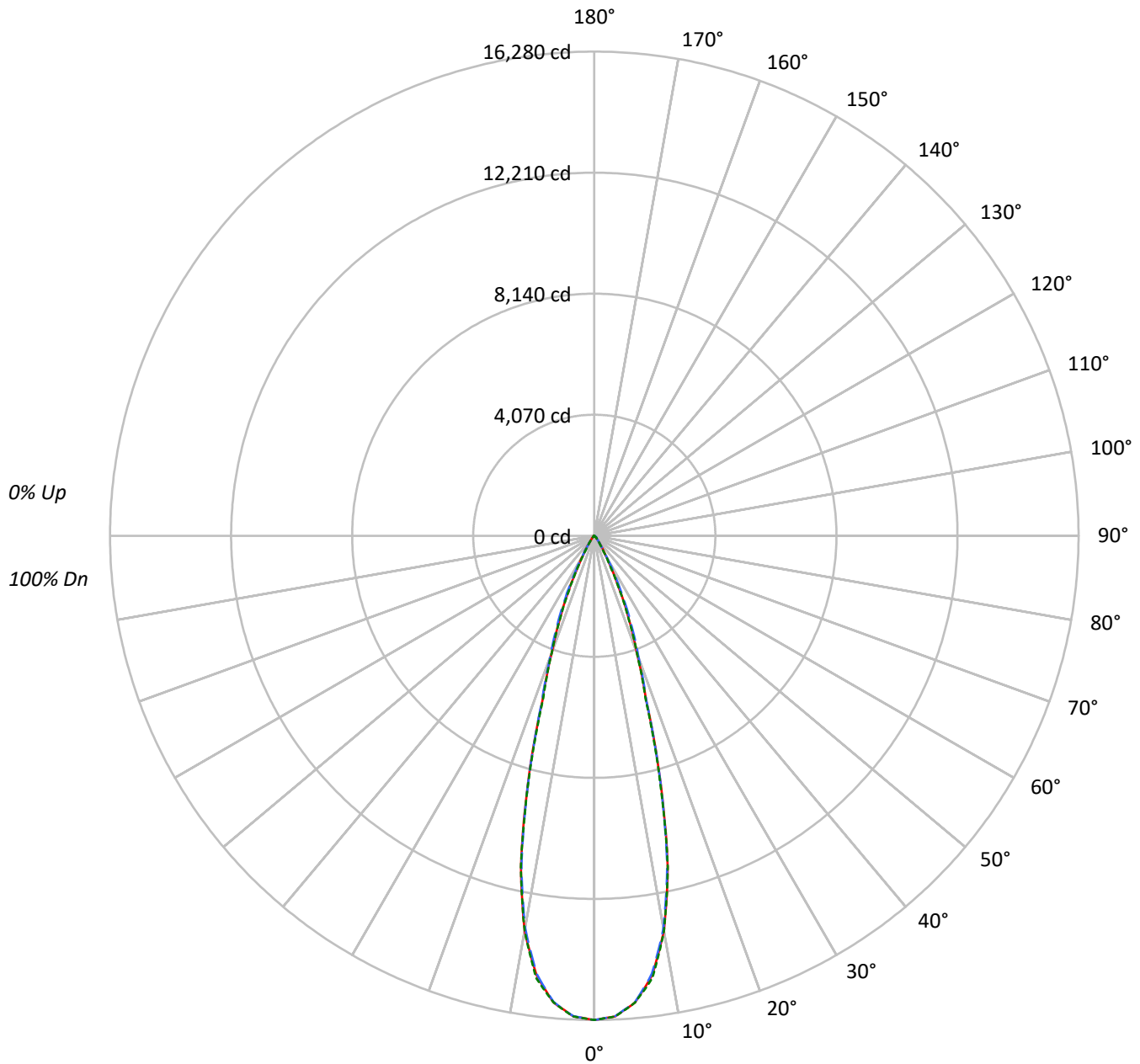


Downlight

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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°	1246165	1246165	1246165
5°	1210394	1208980	1210455
10°	1048383	1040991	1048134
15°	684015	680346	676922
20°	340127	352891	339671
25°	171336	193202	167823
30°	68595	74747	59766
35°	31817	30472	25547
40°	13739	15258	12940
45°	9688	12026	9775
50°	3334	8752	3525
55°	1922	3630	2028
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12026 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.6	28.3
10°-20°	2305.6	45.5
20°-30°	996.3	19.7
30°-40°	227.1	4.5
40°-50°	78.0	1.5
50°-60°	19.1	0.4
60°-70°	4.9	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°	4733.6	93.5
0°-40°	4960.7	98.0
0°-60°	5057.7	99.9
0°-90°	5063.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16280	16280	16280	16280	16280	
5°	15753	15738	15735	15767	15754	1433
15°	8632	8528	8586	8558	8542	2311
25°	2029	2105	2288	2052	1987	971
35°	340	348	326	324	273	231
45°	90	111	111	111	90	64
55°	14	15	27	16	15	14
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°	16280.5	16280.5	16280.5	16280.5	16280.5
2.5°	16172.6	16161.4	16167.8	16175.8	16179.0
5°	15753.0	15737.8	15734.6	15767.3	15753.8
7.5°	14906.5	14884.9	14852.1	14926.5	14996.0
10°	13488.5	13464.5	13393.4	13428.5	13485.3
12.5°	11395.1	11317.5	11315.9	11427.9	11412.7
15°	8631.8	8527.9	8585.5	8557.5	8542.3
17.5°	5804.6	5764.7	5841.4	5818.2	5718.3
20°	4175.6	4186.0	4332.3	4258.8	4170.0
22.5°	3047.0	3084.6	3258.0	3068.6	2999.0
25°	2028.7	2105.4	2287.6	2051.8	1987.1
27.5°	1247.7	1282.9	1467.5	1231.7	1196.6
30°	776.1	758.6	845.7	725.8	676.2
32.5°	509.2	486.8	514.8	462.0	422.0
35°	340.5	347.7	326.1	323.7	273.4
37.5°	212.6	244.6	215.8	230.2	175.8
40°	137.5	177.4	152.7	168.7	129.5
42.5°	112.7	136.7	125.5	133.5	115.1
45°	89.5	111.1	111.1	111.1	90.3
47.5°	49.6	74.3	95.1	75.9	52.8
50°	28.0	37.6	73.5	39.2	29.6
52.5°	19.2	21.6	50.4	22.4	20.0
55°	14.4	15.2	27.2	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)