

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: P752276

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752276
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-EU4DR3070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6294.8 lumens
Efficiency: N/A
Efficacy: 94.5 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

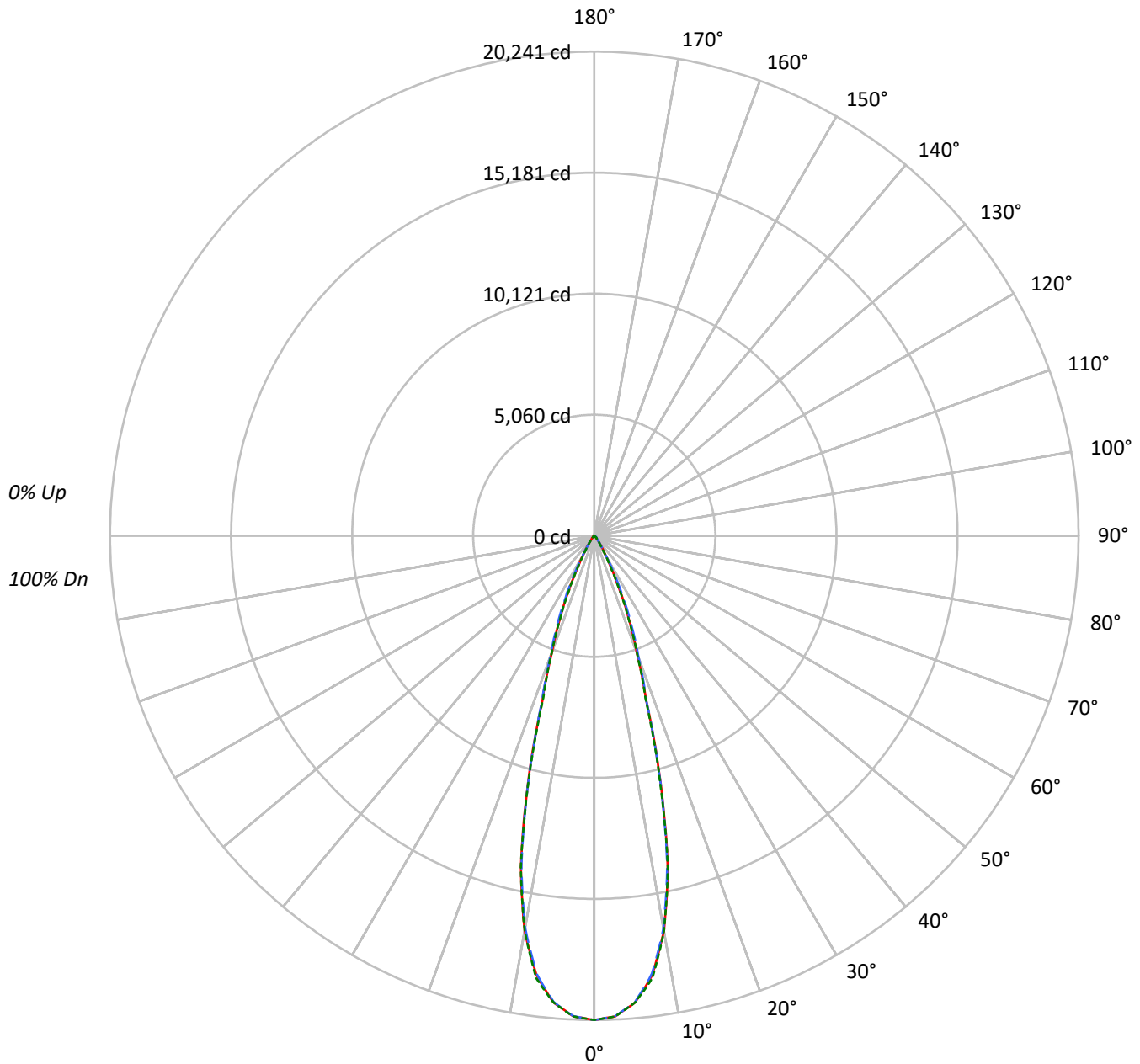


Downlight

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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°	1549307	1549307	1549307
5°	1504829	1503069	1504906
10°	1303412	1294217	1303101
15°	850410	845846	841590
20°	422870	438737	422299
25°	213016	240202	208649
30°	85282	92928	74305
35°	39554	37891	31761
40°	17076	18965	16087
45°	12048	14949	12156
50°	4144	10884	4382
55°	2389	4511	2522
60°	1669	1975	1669
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14949 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1779.9	28.3
10°-20°	2866.5	45.5
20°-30°	1238.7	19.7
30°-40°	282.3	4.5
40°-50°	96.9	1.5
50°-60°	23.7	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5885.1	93.5
0°-40°	6167.4	98.0
0°-60°	6288.0	99.9
0°-90°	6294.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6294.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20241	20241	20241	20241	20241	
5°	19585	19566	19562	19603	19586	1781
15°	10732	10602	10674	10639	10620	2874
25°	2522	2618	2844	2551	2470	1207
35°	423	432	406	402	340	287
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
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°	20240.9	20240.9	20240.9	20240.9	20240.9
2.5°	20106.7	20092.8	20100.7	20110.7	20114.7
5°	19585.0	19566.1	19562.1	19602.9	19586.0
7.5°	18532.6	18505.8	18465.0	18557.4	18643.9
10°	16769.7	16739.9	16651.4	16695.1	16765.7
12.5°	14167.0	14070.6	14068.6	14207.8	14188.9
15°	10731.6	10602.4	10674.0	10639.2	10620.3
17.5°	7216.7	7167.0	7262.4	7233.6	7109.3
20°	5191.4	5204.3	5386.2	5294.7	5184.4
22.5°	3788.2	3834.9	4050.6	3815.0	3728.6
25°	2522.2	2617.6	2844.1	2551.0	2470.5
27.5°	1551.3	1595.0	1824.5	1531.4	1487.7
30°	964.9	943.1	1051.4	902.3	840.7
32.5°	633.0	605.2	640.0	574.4	524.7
35°	423.3	432.3	405.5	402.5	339.9
37.5°	264.3	304.1	268.3	286.2	218.6
40°	170.9	220.6	189.8	209.7	161.0
42.5°	140.1	169.9	156.0	166.0	143.1
45°	111.3	138.1	138.1	138.1	112.3
47.5°	61.6	92.4	118.3	94.4	65.6
50°	34.8	46.7	91.4	48.7	36.8
52.5°	23.9	26.8	62.6	27.8	24.8
55°	17.9	18.9	33.8	19.9	18.9
57.5°	13.9	14.9	17.9	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	8.0	8.0	8.9	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)