

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: P752250

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752250
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-EU4DR3070959035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5971.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

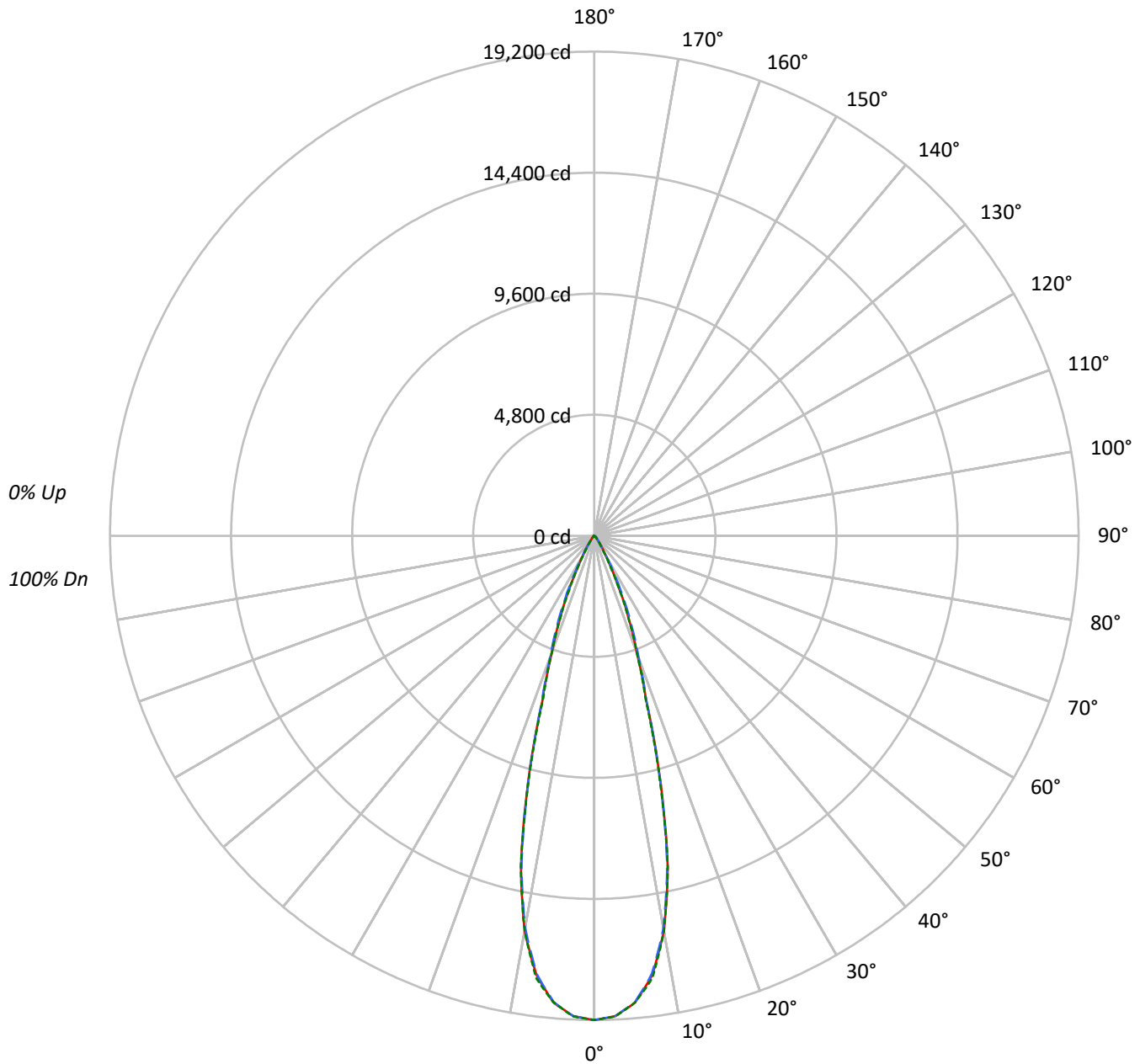


Downlight

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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°	1469610	1469610	1469610
5°	1427417	1425757	1427494
10°	1236359	1227646	1236071
15°	806668	802333	798300
20°	401121	416166	400583
25°	202053	227846	197915
30°	80899	88146	70487
35°	37526	35938	30126
40°	16197	17986	15258
45°	11431	14181	11528
50°	3930	10324	4156
55°	2269	4270	2389
60°	1592	1883	1592
65°	1032	1032	1032
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: 14181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1688.3	28.3
10°-20°	2719.1	45.5
20°-30°	1175.0	19.7
30°-40°	267.8	4.5
40°-50°	92.0	1.5
50°-60°	22.5	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°	5582.4	93.5
0°-40°	5850.2	98.0
0°-60°	5964.6	99.9
0°-90°	5971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19200	19200	19200	19200	19200	
5°	18578	18560	18556	18594	18578	1690
15°	10180	10057	10125	10092	10074	2726
25°	2392	2483	2698	2420	2343	1145
35°	402	410	385	382	322	272
45°	106	131	131	131	106	75
55°	17	18	32	19	18	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°	19199.7	19199.7	19199.7	19199.7	19199.7
2.5°	19072.4	19059.2	19066.8	19076.2	19080.0
5°	18577.5	18559.6	18555.9	18594.5	18578.5
7.5°	17579.3	17553.8	17515.2	17602.9	17684.9
10°	15907.0	15878.8	15794.9	15836.3	15903.3
12.5°	13438.3	13346.8	13345.0	13476.9	13459.0
15°	10179.6	10057.0	10124.9	10091.9	10074.0
17.5°	6845.4	6798.3	6888.8	6861.5	6743.6
20°	4924.4	4936.6	5109.1	5022.4	4917.8
22.5°	3593.3	3637.6	3842.2	3618.8	3536.8
25°	2392.4	2482.9	2697.8	2419.8	2343.4
27.5°	1471.5	1512.9	1730.7	1452.6	1411.1
30°	915.3	894.6	997.3	855.9	797.5
32.5°	600.5	574.1	607.1	544.8	497.7
35°	401.6	410.0	384.6	381.8	322.4
37.5°	250.7	288.4	254.5	271.5	207.4
40°	162.1	209.3	180.0	198.9	152.7
42.5°	132.9	161.2	148.0	157.4	135.7
45°	105.6	131.0	131.0	131.0	106.5
47.5°	58.4	87.7	112.2	89.6	62.2
50°	33.0	44.3	86.7	46.2	34.9
52.5°	22.6	25.5	59.4	26.4	23.6
55°	17.0	17.9	32.0	18.9	17.9
57.5°	13.2	14.1	17.0	14.1	13.2
60°	10.4	10.4	12.3	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)