

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: P752221

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752221
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-EU4DR3070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5176.3 lumens
Efficiency: N/A
Efficacy: 77.7 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

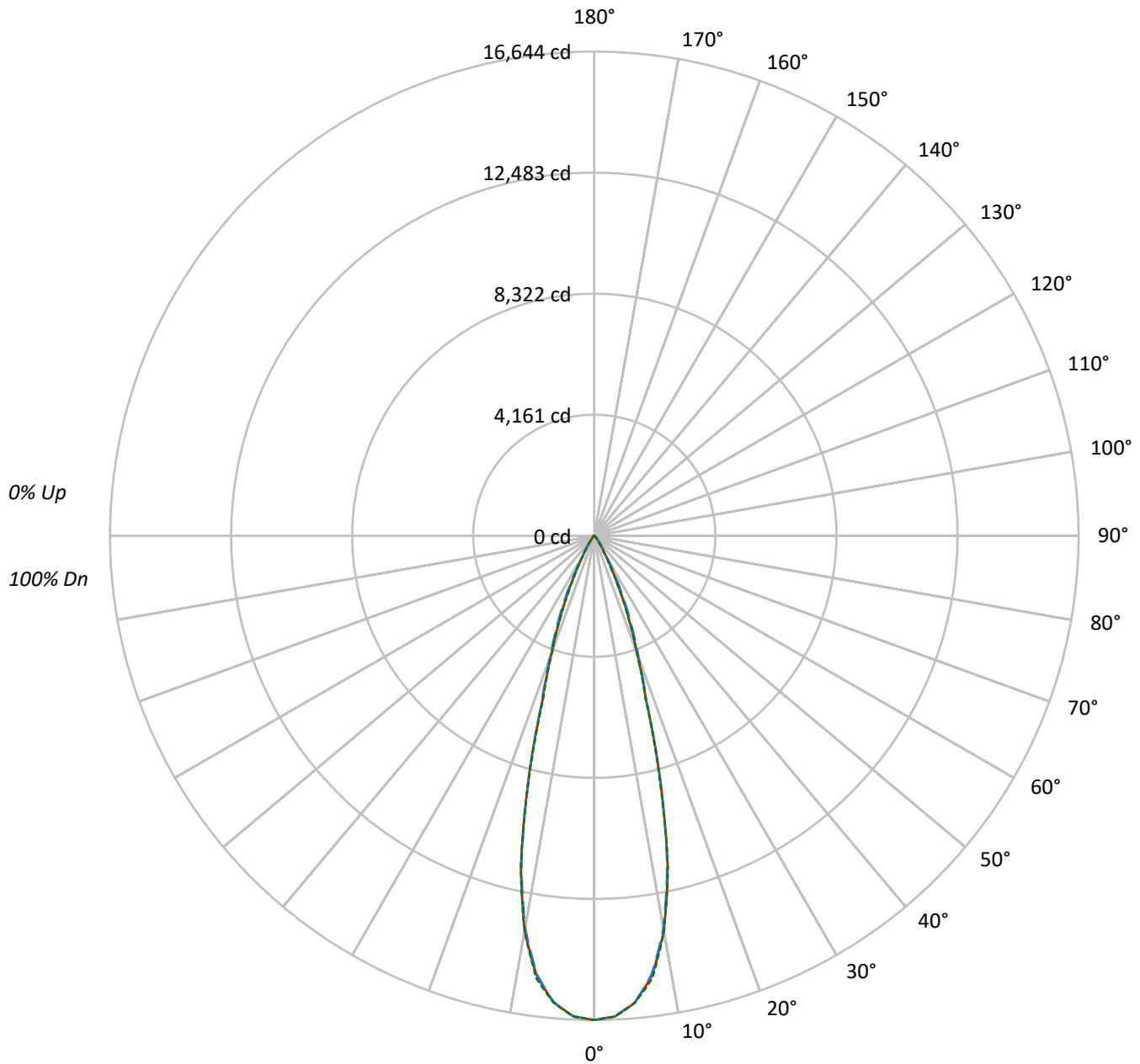


Downlight

TEST NUMBER: P752221

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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°	1274019	1274019	1274019
5°	1237440	1235996	1237502
10°	1071817	1064254	1071560
15°	699309	695552	692050
20°	347735	360776	347262
25°	175162	197526	171573
30°	70133	76417	61100
35°	32527	31154	26117
40°	14049	15598	13229
45°	9905	12297	9991
50°	3406	8955	3596
55°	1962	3710	2068
60°	1378	1623	1378
65°	887	887	887
70°	559	358	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1463.6	28.3
10°-20°	2357.2	45.5
20°-30°	1018.6	19.7
30°-40°	232.2	4.5
40°-50°	79.7	1.5
50°-60°	19.5	0.4
60°-70°	5.0	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°	4839.4	93.5
0°-40°	5071.6	98.0
0°-60°	5170.7	99.9
0°-90°	5176.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5176.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16644	16644	16644	16644	16644	
5°	16105	16090	16086	16120	16106	1465
15°	8825	8718	8777	8749	8733	2363
25°	2074	2152	2339	2098	2032	993
35°	348	356	333	331	280	236
45°	92	114	114	114	92	65
55°	15	16	28	16	16	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°	16644.4	16644.4	16644.4	16644.4	16644.4
2.5°	16534.1	16522.6	16529.1	16537.3	16540.6
5°	16105.0	16089.5	16086.2	16119.7	16105.8
7.5°	15239.6	15217.6	15184.1	15260.1	15331.2
10°	13790.0	13765.4	13692.7	13728.7	13786.7
12.5°	11649.8	11570.5	11568.9	11683.3	11667.7
15°	8824.8	8718.5	8777.4	8748.8	8733.2
17.5°	5934.4	5893.5	5972.0	5948.3	5846.1
20°	4269.0	4279.6	4429.1	4353.9	4263.2
22.5°	3115.1	3153.5	3330.8	3137.2	3066.1
25°	2074.0	2152.5	2338.8	2097.7	2031.5
27.5°	1275.6	1311.6	1500.3	1259.3	1223.3
30°	793.5	775.5	864.6	742.0	691.3
32.5°	520.5	497.7	526.3	472.3	431.5
35°	348.1	355.5	333.4	331.0	279.5
37.5°	217.4	250.1	220.6	235.3	179.8
40°	140.6	181.4	156.1	172.4	132.4
42.5°	115.2	139.7	128.3	136.5	117.7
45°	91.5	113.6	113.6	113.6	92.3
47.5°	50.7	76.0	97.2	77.6	53.9
50°	28.6	38.4	75.2	40.0	30.2
52.5°	19.6	22.1	51.5	22.9	20.4
55°	14.7	15.5	27.8	16.3	15.5
57.5°	11.4	12.3	14.7	12.3	11.4
60°	9.0	9.0	10.6	9.8	9.0
62.5°	6.5	6.5	7.4	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.6	1.6	1.6	2.5
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)