

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: P753031

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753031
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: LD4D75BD010-EU4DR3070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6982.1 lumens
Efficiency: N/A
Efficacy: 96.4 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): 72.4
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

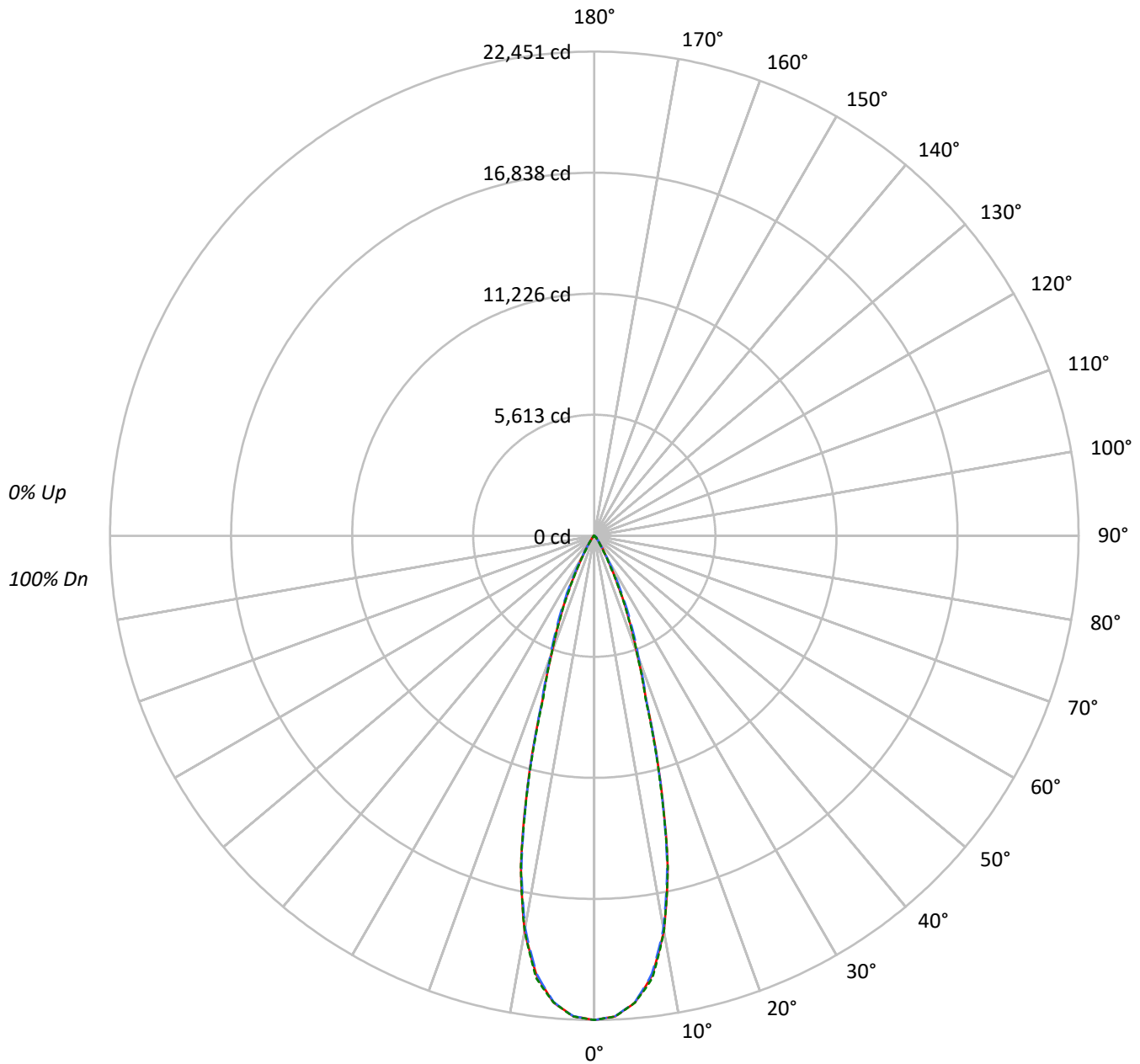


Downlight

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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°	1718468	1718468	1718468
5°	1669134	1667183	1669219
10°	1445725	1435527	1445375
15°	943260	938196	933481
20°	469039	486641	468411
25°	236266	266434	231427
30°	94598	103074	82419
35°	43880	42021	35228
40°	18945	21033	17846
45°	13369	16584	13488
50°	4597	12075	4858
55°	2642	5004	2789
60°	1852	2189	1852
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16584 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1974.2	28.3
10°-20°	3179.5	45.5
20°-30°	1373.9	19.7
30°-40°	313.2	4.5
40°-50°	107.5	1.5
50°-60°	26.3	0.4
60°-70°	6.8	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°	6527.6	93.5
0°-40°	6840.8	98.0
0°-60°	6974.6	99.9
0°-90°	6982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6982.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22451	22451	22451	22451	22451	
5°	21723	21702	21698	21743	21724	1976
15°	11903	11760	11839	11801	11780	3187
25°	2798	2903	3155	2830	2740	1339
35°	470	480	450	446	377	319
45°	124	153	153	153	125	88
55°	20	21	38	22	21	19
65°	7	7	7	7	7	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°	22450.9	22450.9	22450.9	22450.9	22450.9
2.5°	22302.1	22286.6	22295.4	22306.5	22310.9
5°	21723.4	21702.4	21698.0	21743.2	21724.5
7.5°	20556.1	20526.3	20481.1	20583.6	20679.5
10°	18600.7	18567.6	18469.5	18518.0	18596.2
12.5°	15713.8	15606.9	15604.7	15759.0	15738.1
15°	11903.3	11760.0	11839.4	11800.8	11779.9
17.5°	8004.6	7949.5	8055.3	8023.4	7885.6
20°	5758.2	5772.5	5974.3	5872.8	5750.5
22.5°	4201.8	4253.6	4492.8	4231.6	4135.7
25°	2797.5	2903.4	3154.7	2829.5	2740.2
27.5°	1720.6	1769.1	2023.8	1698.6	1650.1
30°	1070.3	1046.0	1166.2	1000.9	932.5
32.5°	702.1	671.3	709.9	637.1	582.0
35°	469.6	479.5	449.7	446.4	377.0
37.5°	293.2	337.3	297.6	317.5	242.5
40°	189.6	244.7	210.5	232.6	178.6
42.5°	155.4	188.5	173.1	184.1	158.7
45°	123.5	153.2	153.2	153.2	124.6
47.5°	68.3	102.5	131.2	104.7	72.7
50°	38.6	51.8	101.4	54.0	40.8
52.5°	26.5	29.8	69.4	30.9	27.6
55°	19.8	20.9	37.5	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)