

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: P753059

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753059
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-EU4DR3070959050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8243.3 lumens
Efficiency: N/A
Efficacy: 113.9 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 (A_{in}): 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

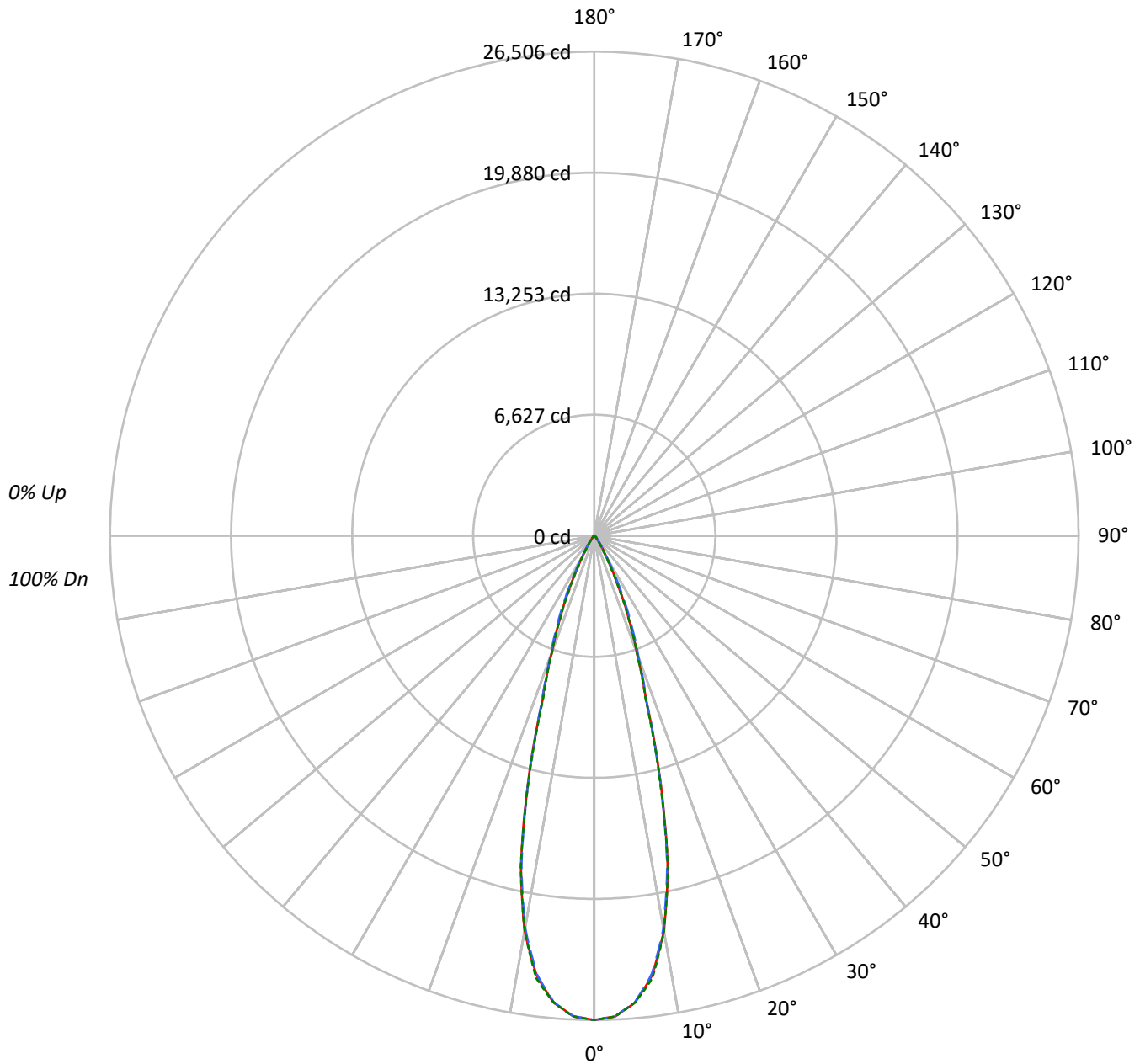


Downlight

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2028882	2028882	2028882
5°	1970638	1968341	1970738
10°	1706870	1694838	1706466
15°	1113649	1107666	1102096
20°	553769	574540	553020
25°	278951	314557	273233
30°	111683	121688	97312
35°	51804	49618	41591
40°	22362	24840	21063
45°	15783	19582	15923
50°	5418	14254	5740
55°	3123	5898	3296
60°	2189	2587	2189
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2330.8	28.3
10°-20°	3753.8	45.5
20°-30°	1622.1	19.7
30°-40°	369.7	4.5
40°-50°	126.9	1.5
50°-60°	31.0	0.4
60°-70°	8.0	0.1
70°-80°	0.8	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°	7706.8	93.5
0°-40°	8076.5	98.0
0°-60°	8234.4	99.9
0°-90°	8243.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8243.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26506	26506	26506	26506	26506	
5°	25647	25623	25618	25671	25649	2333
15°	14054	13884	13978	13932	13908	3763
25°	3303	3428	3724	3341	3235	1581
35°	554	566	531	527	445	376
45°	146	181	181	181	147	103
55°	23	25	44	26	25	23
65°	8	8	8	8	8	8
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°	26506.3	26506.3	26506.3	26506.3	26506.3
2.5°	26330.6	26312.4	26322.8	26335.8	26341.0
5°	25647.4	25622.7	25617.5	25670.8	25648.7
7.5°	24269.3	24234.1	24180.8	24301.8	24415.0
10°	21960.6	21921.6	21805.8	21863.0	21955.4
12.5°	18552.3	18426.1	18423.5	18605.7	18581.0
15°	14053.5	13884.3	13978.0	13932.5	13907.7
17.5°	9450.6	9385.5	9510.4	9472.7	9310.0
20°	6798.4	6815.3	7053.4	6933.7	6789.2
22.5°	4960.8	5022.0	5304.4	4996.0	4882.7
25°	3302.9	3427.8	3724.5	3340.6	3235.2
27.5°	2031.4	2088.7	2389.3	2005.4	1948.2
30°	1263.6	1235.0	1376.8	1181.6	1101.0
32.5°	829.0	792.5	838.1	752.2	687.1
35°	554.4	566.1	531.0	527.1	445.1
37.5°	346.2	398.2	351.4	374.8	286.3
40°	223.8	288.9	248.6	274.6	210.8
42.5°	183.5	222.5	204.3	217.3	187.4
45°	145.8	180.9	180.9	180.9	147.1
47.5°	80.7	121.0	154.9	123.6	85.9
50°	45.5	61.2	119.7	63.8	48.2
52.5°	31.2	35.1	82.0	36.4	32.5
55°	23.4	24.7	44.2	26.0	24.7
57.5°	18.2	19.5	23.4	19.5	18.2
60°	14.3	14.3	16.9	15.6	14.3
62.5°	10.4	10.4	11.7	10.4	10.4
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)