

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: P753055

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753055
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-EU4DR3070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 7831.1 lumens
Efficiency: N/A
Efficacy: 108.2 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

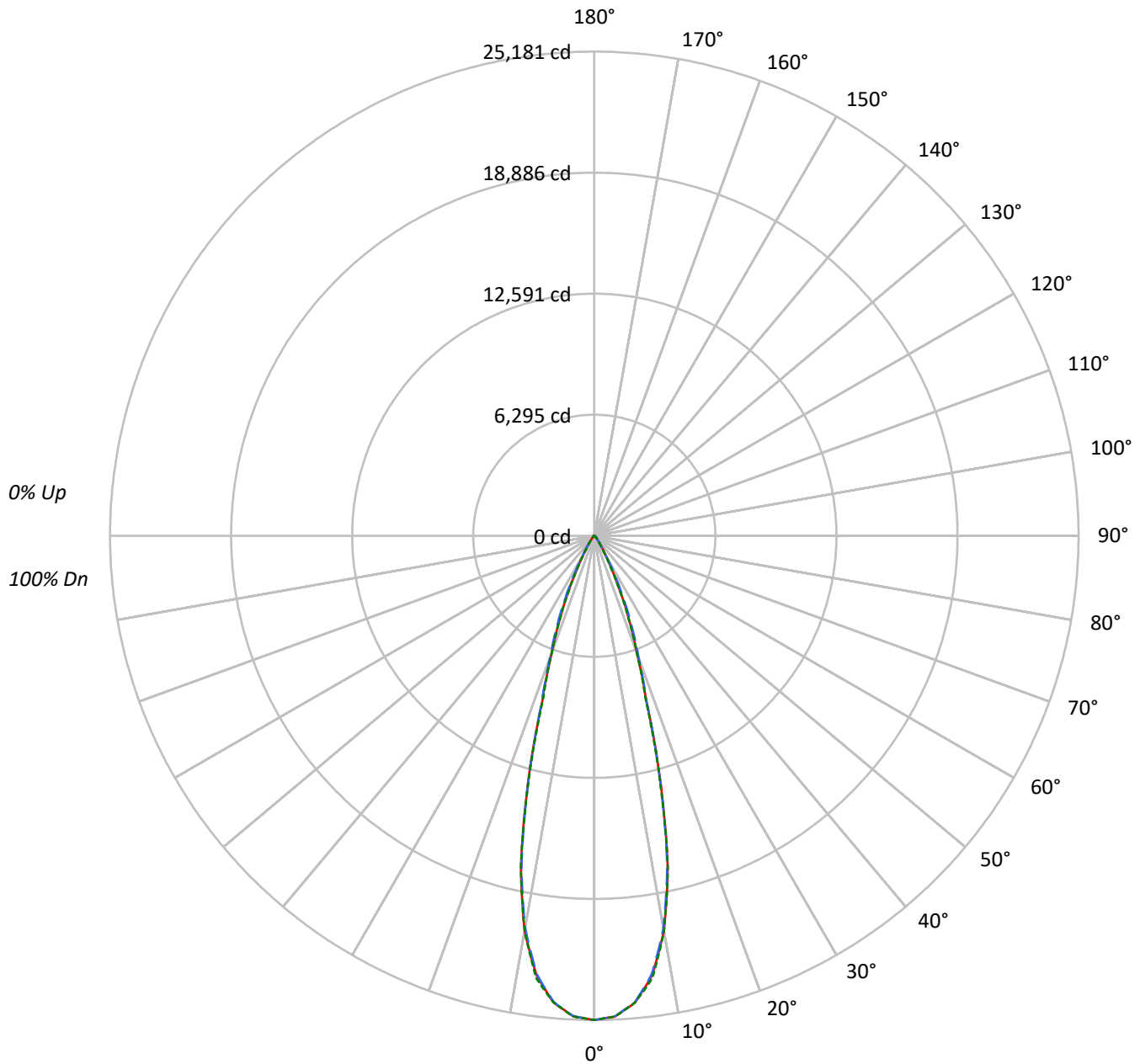


Downlight

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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	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°	1927439	1927439	1927439
5°	1872104	1869922	1872204
10°	1621529	1610096	1621140
15°	1057965	1052283	1046998
20°	526074	545819	525373
25°	264999	298832	259568
30°	106097	115607	92442
35°	49216	47132	39507
40°	21243	23591	20014
45°	14992	18597	15122
50°	5156	13539	5442
55°	2976	5605	3136
60°	2082	2465	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2214.3	28.3
10°-20°	3566.1	45.5
20°-30°	1541.0	19.7
30°-40°	351.2	4.5
40°-50°	120.6	1.5
50°-60°	29.5	0.4
60°-70°	7.6	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°	7321.4	93.5
0°-40°	7672.7	98.0
0°-60°	7822.7	99.9
0°-90°	7831.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7831.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25181	25181	25181	25181	25181	
5°	24365	24342	24337	24387	24366	2216
15°	13351	13190	13279	13236	13212	3575
25°	3138	3256	3538	3174	3073	1502
35°	527	538	504	501	423	357
45°	138	172	172	172	140	98
55°	22	24	42	25	24	22
65°	7	7	7	7	7	7
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°	25181.0	25181.0	25181.0	25181.0	25181.0
2.5°	25014.1	24996.8	25006.7	25019.0	25024.0
5°	24365.0	24341.5	24336.6	24387.3	24366.3
7.5°	23055.8	23022.4	22971.7	23086.7	23194.3
10°	20862.6	20825.5	20715.5	20769.9	20857.6
12.5°	17624.7	17504.8	17502.3	17675.4	17651.9
15°	13350.8	13190.1	13279.1	13235.8	13212.4
17.5°	8978.0	8916.2	9034.9	8999.0	8844.5
20°	6458.4	6474.5	6700.8	6587.0	6449.8
22.5°	4712.8	4770.9	5039.2	4746.2	4638.6
25°	3137.7	3256.4	3538.3	3173.6	3073.4
27.5°	1929.9	1984.3	2269.8	1905.1	1850.7
30°	1200.4	1173.3	1308.0	1122.6	1045.9
32.5°	787.5	752.9	796.2	714.6	652.8
35°	526.7	537.8	504.4	500.7	422.8
37.5°	328.9	378.3	333.8	356.1	272.0
40°	212.6	274.5	236.1	260.9	200.3
42.5°	174.3	211.4	194.1	206.5	178.0
45°	138.5	171.8	171.8	171.8	139.7
47.5°	76.7	115.0	147.1	117.4	81.6
50°	43.3	58.1	113.7	60.6	45.7
52.5°	29.7	33.4	77.9	34.6	30.9
55°	22.3	23.5	42.0	24.7	23.5
57.5°	17.3	18.5	22.3	18.5	17.3
60°	13.6	13.6	16.1	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)