

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: P752992

Luminaire Tested: LD4D75BD010-EU4DR3070959024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752992
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-EU4DR3070959024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5920.5 lumens
Efficiency: N/A
Efficacy: 81.8 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

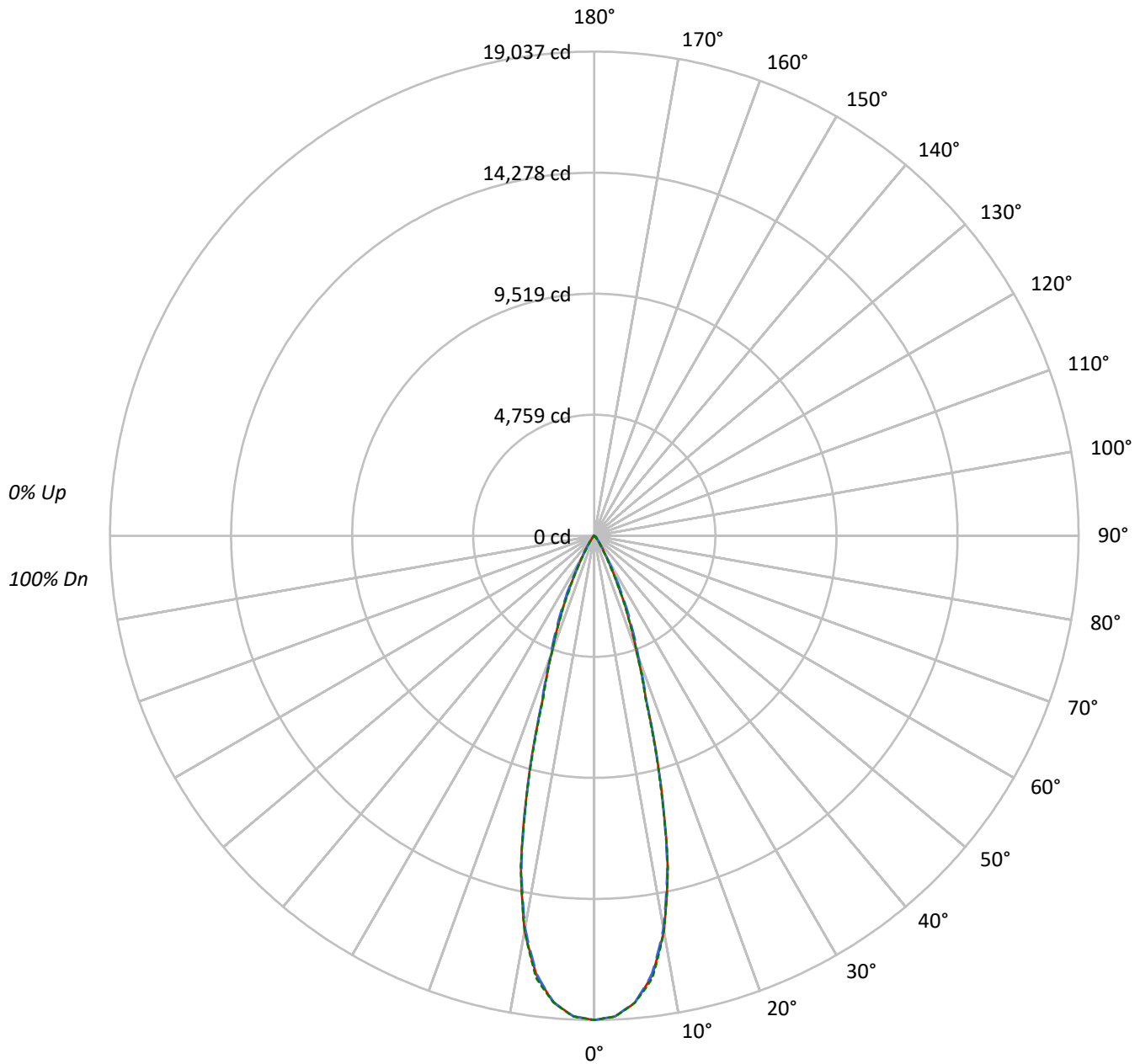


Downlight

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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°	1457187	1457187	1457187
5°	1415353	1413702	1415423
10°	1225913	1217262	1225617
15°	799845	795550	791548
20°	397724	412647	397195
25°	200347	225921	196243
30°	80218	87404	69886
35°	37209	35630	29873
40°	16067	17836	15128
45°	11334	14062	11431
50°	3894	10241	4120
55°	2242	4244	2375
60°	1577	1868	1577
65°	1014	1014	1014
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: 14062 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1674.0	28.3
10°-20°	2696.1	45.5
20°-30°	1165.0	19.7
30°-40°	265.5	4.5
40°-50°	91.2	1.5
50°-60°	22.3	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°	5535.2	93.5
0°-40°	5800.7	98.0
0°-60°	5914.1	99.9
0°-90°	5920.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5920.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19037	19037	19037	19037	19037	
5°	18420	18403	18399	18437	18421	1675
15°	10094	9972	10039	10007	9989	2703
25°	2372	2462	2675	2399	2324	1135
35°	398	407	381	378	320	270
45°	105	130	130	130	106	74
55°	17	18	32	19	18	16
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°	19037.4	19037.4	19037.4	19037.4	19037.4
2.5°	18911.2	18898.1	18905.6	18914.9	18918.7
5°	18420.5	18402.7	18399.0	18437.3	18421.4
7.5°	17430.7	17405.4	17367.1	17454.0	17535.3
10°	15772.6	15744.5	15661.3	15702.5	15768.8
12.5°	13324.7	13234.0	13232.1	13363.0	13345.2
15°	10093.5	9972.0	10039.3	10006.6	9988.8
17.5°	6787.6	6740.8	6830.6	6803.5	6686.6
20°	4882.7	4894.9	5065.9	4979.9	4876.2
22.5°	3563.0	3606.9	3809.7	3588.2	3506.9
25°	2372.2	2461.9	2675.0	2399.3	2323.6
27.5°	1459.0	1500.1	1716.1	1440.3	1399.2
30°	907.6	887.0	988.9	848.7	790.7
32.5°	595.4	569.2	601.9	540.2	493.5
35°	398.2	406.6	381.3	378.5	319.7
37.5°	248.6	286.0	252.4	269.2	205.6
40°	160.8	207.5	178.5	197.2	151.4
42.5°	131.8	159.8	146.7	156.1	134.6
45°	104.7	129.9	129.9	129.9	105.6
47.5°	57.9	86.9	111.2	88.8	61.7
50°	32.7	43.9	86.0	45.8	34.6
52.5°	22.4	25.2	58.9	26.2	23.4
55°	16.8	17.8	31.8	18.7	17.8
57.5°	13.1	14.0	16.8	14.0	13.1
60°	10.3	10.3	12.2	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
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)