

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: P750691

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750691
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: LD4D60D010-EU4DR3055659035-4LBS1B
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: 5859.8 lumens
Efficiency: N/A
Efficacy: 91.0 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): 64.4
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

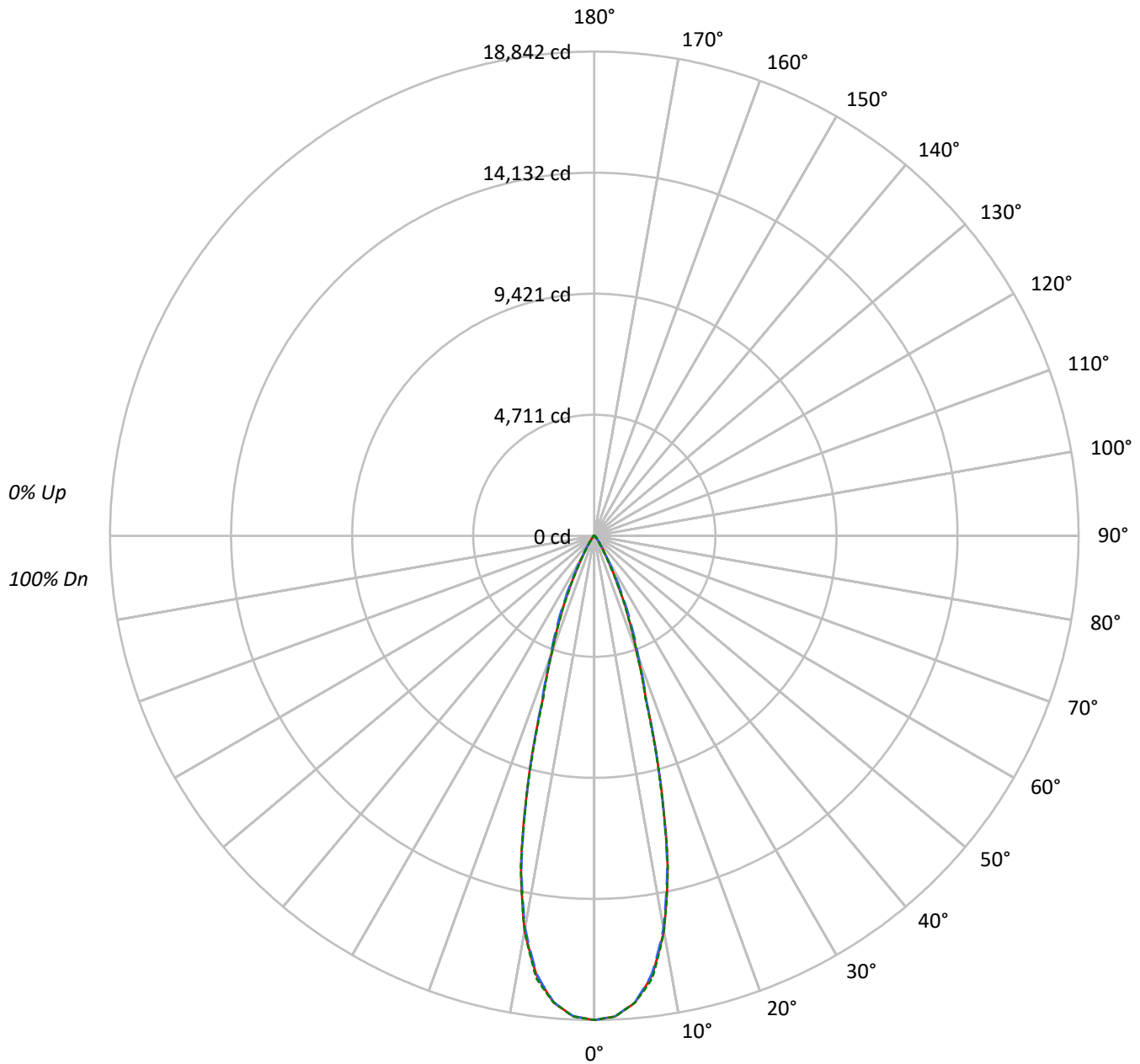


Downlight

TEST NUMBER: P750691

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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°	1442231	1442231	1442231
5°	1400824	1399187	1400893
10°	1213329	1204772	1213042
15°	791635	787388	783426
20°	393643	408411	393114
25°	198286	223606	194224
30°	79396	86502	69170
35°	36826	35265	29565
40°	15897	17656	14978
45°	11215	13921	11312
50°	3858	10134	4073
55°	2229	4204	2349
60°	1561	1837	1561
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: 13921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1656.9	28.3
10°-20°	2668.4	45.5
20°-30°	1153.1	19.7
30°-40°	262.8	4.5
40°-50°	90.2	1.5
50°-60°	22.1	0.4
60°-70°	5.7	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°	5478.3	93.5
0°-40°	5741.2	98.0
0°-60°	5853.5	99.9
0°-90°	5859.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18842	18842	18842	18842	18842	
5°	18231	18214	18210	18248	18232	1658
15°	9990	9870	9936	9904	9886	2675
25°	2348	2437	2648	2375	2300	1124
35°	394	402	377	375	316	267
45°	104	129	129	129	104	74
55°	17	18	32	18	18	16
65°	6	6	6	6	6	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°	18842.0	18842.0	18842.0	18842.0	18842.0
2.5°	18717.1	18704.1	18711.5	18720.8	18724.5
5°	18231.4	18213.8	18210.1	18248.1	18232.3
7.5°	17251.8	17226.8	17188.9	17274.9	17355.4
10°	15610.7	15582.9	15500.6	15541.3	15607.0
12.5°	13187.9	13098.2	13096.3	13225.8	13208.3
15°	9989.9	9869.7	9936.3	9903.9	9886.3
17.5°	6717.9	6671.7	6760.5	6733.6	6618.0
20°	4832.6	4844.6	5013.9	4928.8	4826.1
22.5°	3526.4	3569.9	3770.6	3551.4	3470.9
25°	2347.8	2436.7	2647.6	2374.7	2299.7
27.5°	1444.0	1484.7	1698.4	1425.5	1384.8
30°	898.3	877.9	978.7	840.0	782.6
32.5°	589.3	563.4	595.7	534.7	488.4
35°	394.1	402.4	377.4	374.7	316.4
37.5°	246.1	283.1	249.8	266.4	203.5
40°	159.1	205.4	176.7	195.2	149.9
42.5°	130.4	158.2	145.2	154.5	133.2
45°	103.6	128.6	128.6	128.6	104.5
47.5°	57.4	86.0	110.1	87.9	61.1
50°	32.4	43.5	85.1	45.3	34.2
52.5°	22.2	25.0	58.3	25.9	23.1
55°	16.7	17.6	31.5	18.5	17.6
57.5°	13.0	13.9	16.7	13.9	13.0
60°	10.2	10.2	12.0	11.1	10.2
62.5°	7.4	7.4	8.3	7.4	7.4
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)