

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: P750702

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750702
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-EU4DR3055659040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6525.7 lumens
Efficiency: N/A
Efficacy: 101.3 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 (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

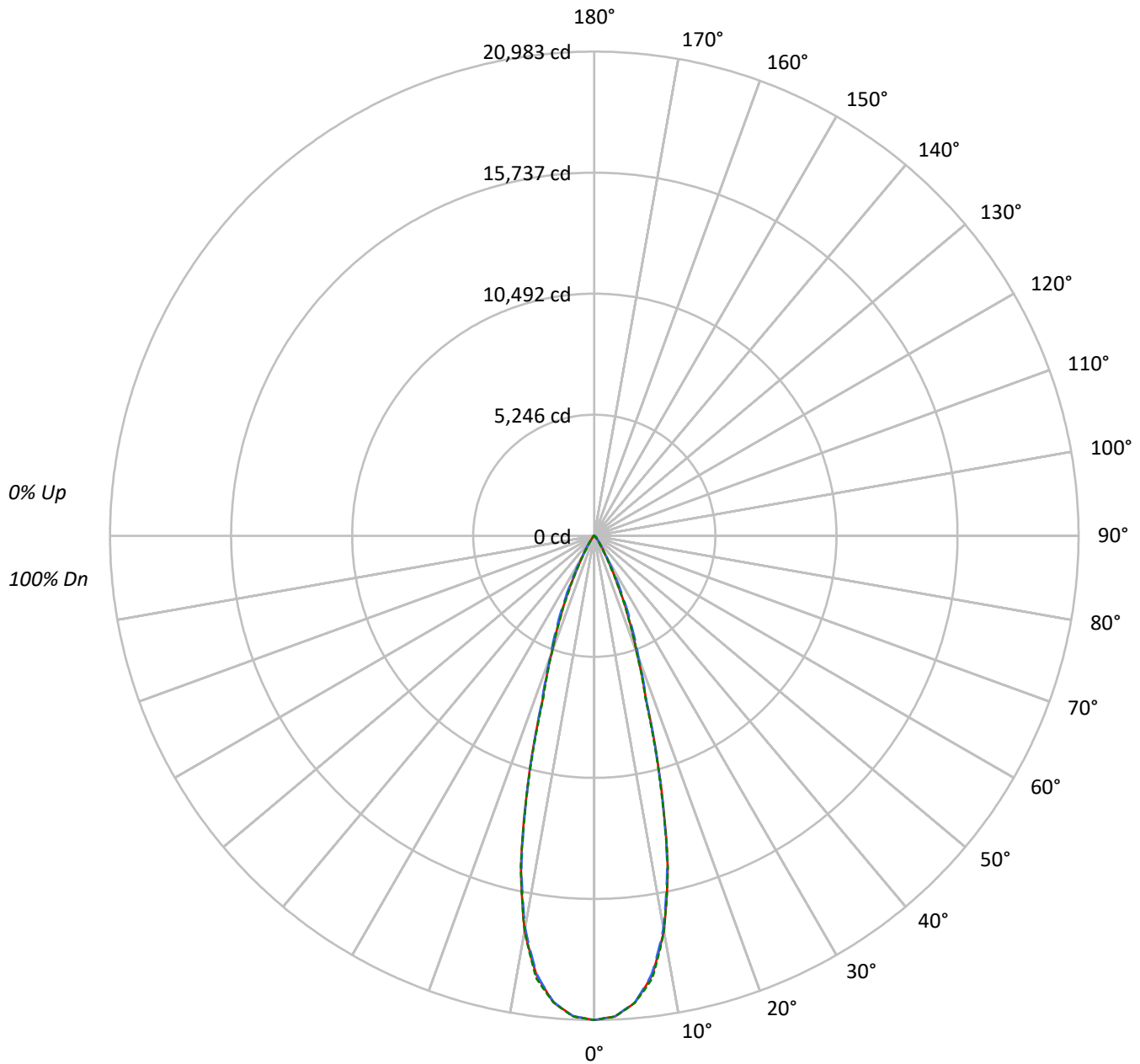


Downlight

TEST NUMBER: P750702

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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°	1606141	1606141	1606141
5°	1560028	1558207	1560112
10°	1351220	1341691	1350901
15°	881608	876870	872464
20°	438379	454833	437792
25°	220828	249019	216301
30°	88411	96339	77036
35°	41012	39274	32920
40°	17706	19664	16677
45°	12492	15501	12600
50°	4299	11289	4537
55°	2469	4671	2616
60°	1730	2051	1730
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1845.2	28.3
10°-20°	2971.7	45.5
20°-30°	1284.1	19.7
30°-40°	292.7	4.5
40°-50°	100.5	1.5
50°-60°	24.5	0.4
60°-70°	6.4	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°	6101.0	93.5
0°-40°	6393.7	98.0
0°-60°	6518.7	99.9
0°-90°	6525.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6525.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20983	20983	20983	20983	20983	
5°	20303	20284	20280	20322	20304	1847
15°	11125	10991	11066	11030	11010	2979
25°	2615	2714	2948	2645	2561	1252
35°	439	448	420	417	352	298
45°	115	143	143	143	116	82
55°	18	20	35	21	20	18
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°	20983.4	20983.4	20983.4	20983.4	20983.4
2.5°	20844.3	20829.9	20838.1	20848.4	20852.5
5°	20303.4	20283.9	20279.7	20322.0	20304.5
7.5°	19212.4	19184.6	19142.4	19238.2	19327.8
10°	17384.8	17353.9	17262.2	17307.6	17380.7
12.5°	14686.7	14586.8	14584.7	14729.0	14709.4
15°	11125.3	10991.3	11065.5	11029.5	11009.9
17.5°	7481.4	7429.9	7528.8	7498.9	7370.1
20°	5381.8	5395.2	5583.8	5489.0	5374.6
22.5°	3927.2	3975.6	4199.1	3955.0	3865.4
25°	2614.7	2713.6	2948.5	2644.6	2561.1
27.5°	1608.2	1653.5	1891.5	1587.6	1542.2
30°	1000.3	977.7	1090.0	935.4	871.6
32.5°	656.2	627.4	663.5	595.5	544.0
35°	438.9	448.1	420.3	417.2	352.3
37.5°	274.0	315.2	278.2	296.7	226.6
40°	177.2	228.7	196.8	217.4	166.9
42.5°	145.3	176.2	161.7	172.0	148.4
45°	115.4	143.2	143.2	143.2	116.4
47.5°	63.9	95.8	122.6	97.9	68.0
50°	36.1	48.4	94.8	50.5	38.1
52.5°	24.7	27.8	64.9	28.8	25.8
55°	18.5	19.6	35.0	20.6	19.6
57.5°	14.4	15.5	18.5	15.5	14.4
60°	11.3	11.3	13.4	12.4	11.3
62.5°	8.2	8.2	9.3	8.2	8.2
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)