

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: P750714

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750714
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-EU4DR3055659050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 6259.4 lumens
Efficiency: N/A
Efficacy: 97.2 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): 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

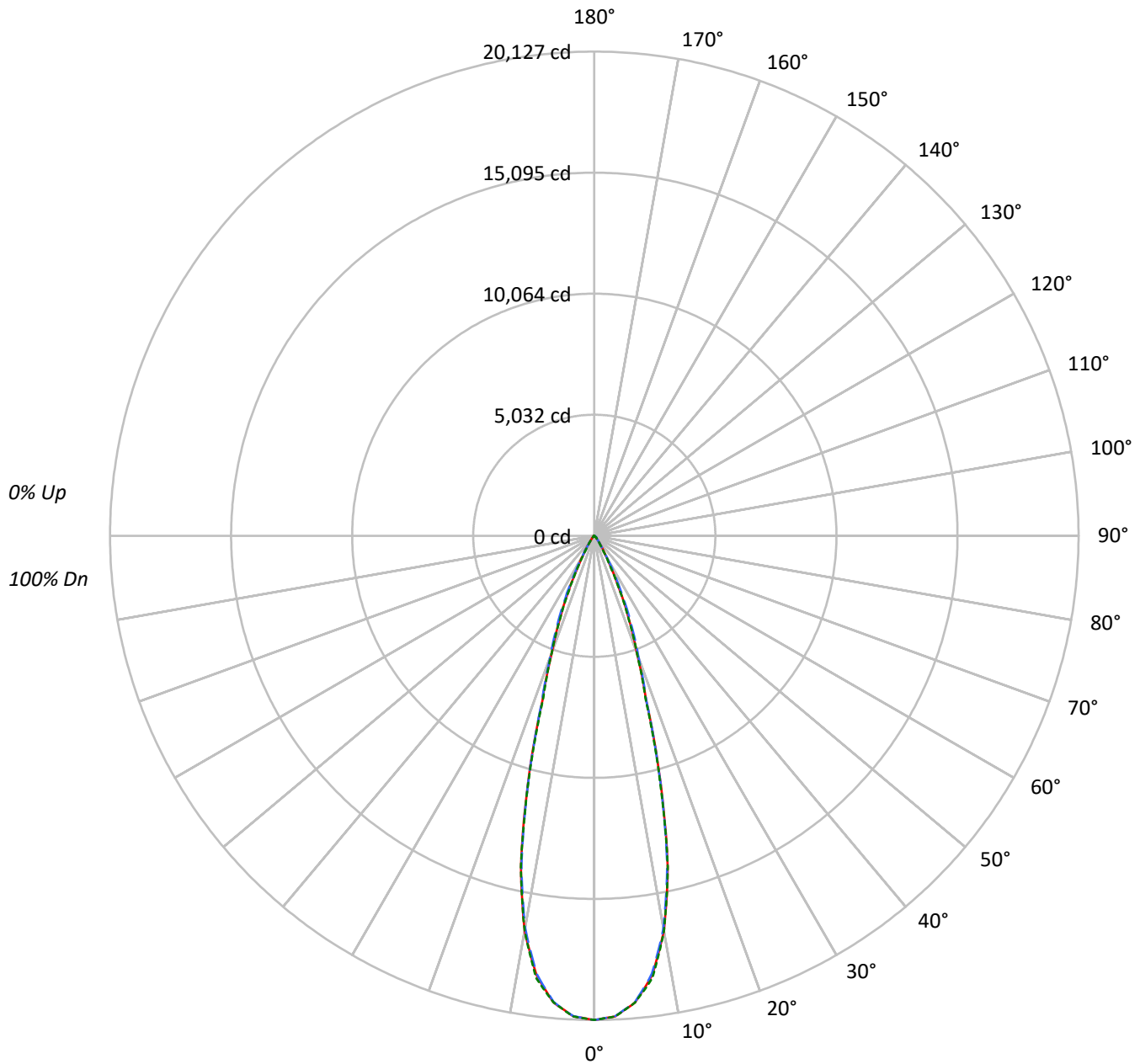


Downlight

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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°	1540581	1540581	1540581
5°	1496354	1494610	1496431
10°	1296074	1286934	1295763
15°	845624	841083	836852
20°	420491	436261	419921
25°	211816	238851	207475
30°	84805	92406	73890
35°	39339	37676	31583
40°	16986	18855	15997
45°	11983	14873	12091
50°	4120	10824	4358
55°	2375	4484	2509
60°	1669	1960	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14873 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1769.9	28.3
10°-20°	2850.4	45.5
20°-30°	1231.7	19.7
30°-40°	280.7	4.5
40°-50°	96.4	1.5
50°-60°	23.6	0.4
60°-70°	6.1	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°	5852.0	93.5
0°-40°	6132.7	98.0
0°-60°	6252.7	99.9
0°-90°	6259.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6259.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20127	20127	20127	20127	20127	
5°	19475	19456	19452	19492	19476	1771
15°	10671	10543	10614	10579	10560	2857
25°	2508	2603	2828	2537	2457	1200
35°	421	430	403	400	338	286
45°	111	137	137	137	112	79
55°	18	19	34	20	19	17
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°	20126.9	20126.9	20126.9	20126.9	20126.9
2.5°	19993.5	19979.7	19987.6	19997.5	20001.4
5°	19474.7	19455.9	19452.0	19492.5	19475.7
7.5°	18428.3	18401.6	18361.1	18453.0	18538.9
10°	16675.3	16645.6	16557.7	16601.1	16671.3
12.5°	14087.3	13991.4	13989.4	14127.8	14109.0
15°	10671.2	10542.7	10613.9	10579.3	10560.5
17.5°	7176.0	7126.6	7221.5	7192.8	7069.3
20°	5162.2	5175.0	5355.8	5264.9	5155.2
22.5°	3766.9	3813.3	4027.8	3793.6	3707.6
25°	2508.0	2602.8	2828.1	2536.6	2456.6
27.5°	1542.5	1586.0	1814.3	1522.8	1479.3
30°	959.5	937.8	1045.5	897.3	836.0
32.5°	629.5	601.8	636.4	571.2	521.8
35°	421.0	429.9	403.2	400.2	338.0
37.5°	262.9	302.4	266.8	284.6	217.4
40°	170.0	219.4	188.7	208.5	160.1
42.5°	139.3	169.0	155.1	165.0	142.3
45°	110.7	137.4	137.4	137.4	111.7
47.5°	61.3	91.9	117.6	93.9	65.2
50°	34.6	46.4	90.9	48.4	36.6
52.5°	23.7	26.7	62.3	27.7	24.7
55°	17.8	18.8	33.6	19.8	18.8
57.5°	13.8	14.8	17.8	14.8	13.8
60°	10.9	10.9	12.8	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	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)