

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: P750701

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750701
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-EU4DR3055659040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 6215.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

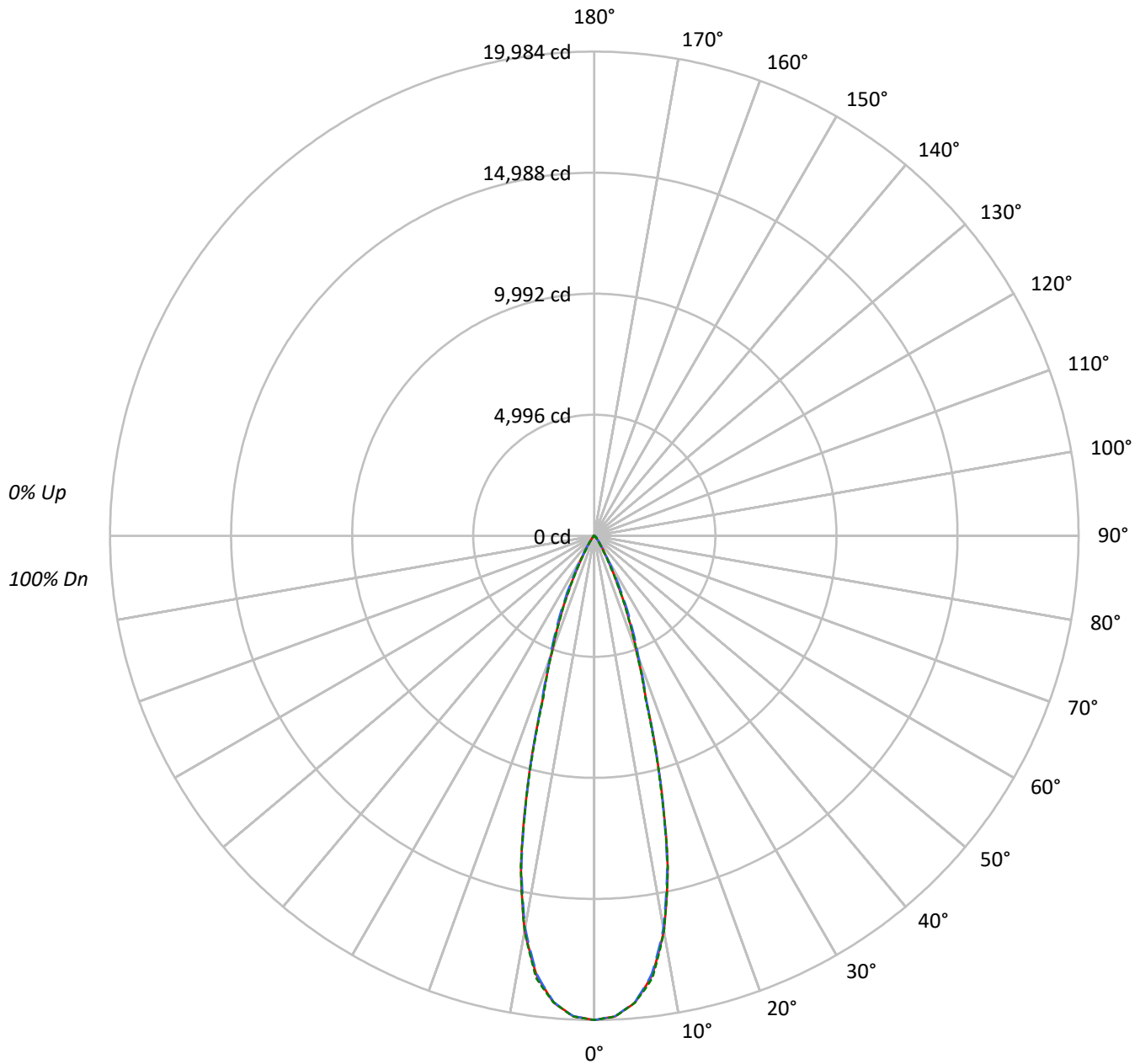


Downlight

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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°	1529659	1529659	1529659
5°	1485743	1484006	1485820
10°	1286880	1277801	1286576
15°	839625	835116	830916
20°	417510	433174	416948
25°	210313	237162	206006
30°	84204	91752	73368
35°	39059	37405	31359
40°	16867	18725	15877
45°	11897	14765	12005
50°	4084	10753	4323
55°	2362	4457	2482
60°	1653	1960	1653
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1757.3	28.3
10°-20°	2830.2	45.5
20°-30°	1223.0	19.7
30°-40°	278.7	4.5
40°-50°	95.7	1.5
50°-60°	23.4	0.4
60°-70°	6.1	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°	5810.5	93.5
0°-40°	6089.2	98.0
0°-60°	6208.3	99.9
0°-90°	6215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19984	19984	19984	19984	19984	
5°	19337	19318	19314	19354	19338	1759
15°	10596	10468	10539	10504	10486	2837
25°	2490	2584	2808	2519	2439	1192
35°	418	427	400	397	336	284
45°	110	136	136	136	111	78
55°	18	19	33	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°	19984.2	19984.2	19984.2	19984.2	19984.2
2.5°	19851.7	19838.0	19845.8	19855.6	19859.6
5°	19336.6	19318.0	19314.0	19354.3	19337.6
7.5°	18297.6	18271.1	18230.8	18322.1	18407.4
10°	16557.0	16527.6	16440.2	16483.4	16553.1
12.5°	13987.3	13892.2	13890.2	14027.6	14008.9
15°	10595.5	10467.9	10538.6	10504.2	10485.6
17.5°	7125.1	7076.1	7170.3	7141.8	7019.2
20°	5125.6	5138.3	5317.9	5227.6	5118.7
22.5°	3740.2	3786.3	3999.2	3766.7	3681.3
25°	2490.2	2584.4	2808.1	2518.6	2439.2
27.5°	1531.6	1574.8	1801.4	1512.0	1468.8
30°	952.7	931.1	1038.1	890.9	830.1
32.5°	625.0	597.5	631.9	567.1	518.0
35°	418.0	426.8	400.3	397.4	335.6
37.5°	261.0	300.2	264.9	282.6	215.9
40°	168.8	217.8	187.4	207.0	158.9
42.5°	138.3	167.8	154.0	163.9	141.3
45°	109.9	136.4	136.4	136.4	110.9
47.5°	60.8	91.2	116.8	93.2	64.8
50°	34.3	46.1	90.3	48.1	36.3
52.5°	23.5	26.5	61.8	27.5	24.5
55°	17.7	18.6	33.4	19.6	18.6
57.5°	13.7	14.7	17.7	14.7	13.7
60°	10.8	10.8	12.8	11.8	10.8
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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)