

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: P750713

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750713
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-EU4DR3055659050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5039.4 lumens
Efficiency: N/A
Efficacy: 78.3 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 (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

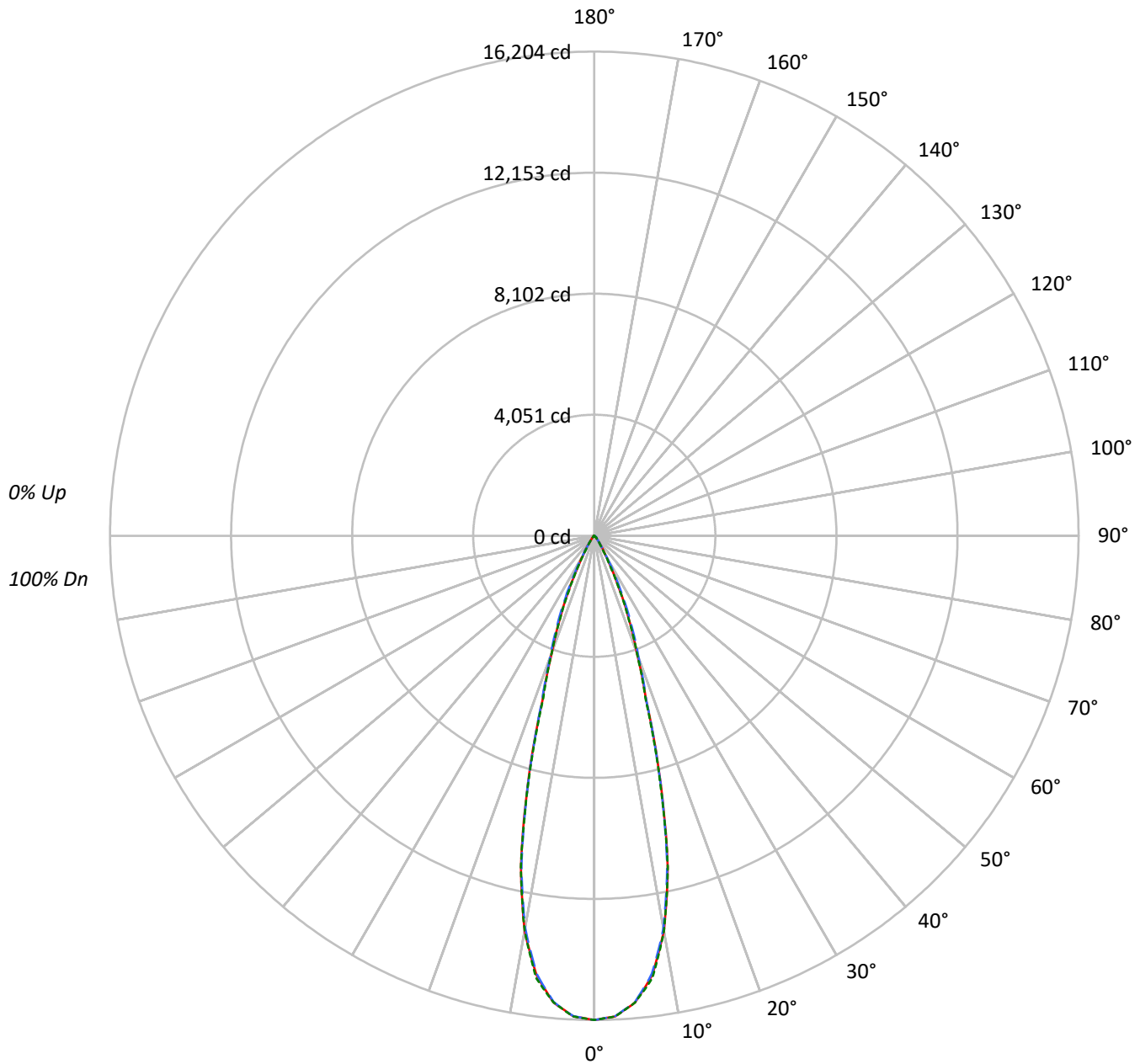


Downlight

TEST NUMBER: P750713

CATALOG NUMBER: LD4D60D010-EU4DR3055659050-4LBDP1B

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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1240309	1240309	1240309
5°	1204708	1203302	1204770
10°	1043455	1036102	1043206
15°	680805	677144	673745
20°	338530	351237	338082
25°	170526	192299	167038
30°	68277	74393	59483
35°	31668	30331	25426
40°	13669	15188	12880
45°	9645	11972	9732
50°	3310	8717	3501
55°	1908	3603	2015
60°	1347	1577	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1424.9	28.3
10°-20°	2294.8	45.5
20°-30°	991.7	19.7
30°-40°	226.0	4.5
40°-50°	77.6	1.5
50°-60°	18.9	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4711.4	93.5
0°-40°	4937.4	98.0
0°-60°	5033.9	99.9
0°-90°	5039.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5039.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16204	16204	16204	16204	16204	
5°	15679	15664	15661	15693	15680	1426
15°	8591	8488	8545	8517	8502	2300
25°	2019	2096	2277	2042	1978	966
35°	339	346	325	322	272	230
45°	89	111	111	111	90	63
55°	14	15	27	16	15	14
65°	5	5	5	5	5	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°	16204.0	16204.0	16204.0	16204.0	16204.0
2.5°	16096.6	16085.5	16091.9	16099.8	16103.0
5°	15679.0	15663.8	15660.7	15693.3	15679.8
7.5°	14836.5	14815.0	14782.4	14856.3	14925.6
10°	13425.1	13401.3	13330.5	13365.5	13421.9
12.5°	11341.5	11264.4	11262.8	11374.2	11359.1
15°	8591.3	8487.9	8545.1	8517.3	8502.2
17.5°	5777.4	5737.6	5814.0	5790.9	5691.5
20°	4156.0	4166.4	4312.0	4238.8	4150.5
22.5°	3032.7	3070.1	3242.7	3054.2	2985.0
25°	2019.1	2095.5	2276.9	2042.2	1977.8
27.5°	1241.9	1276.9	1460.7	1226.0	1191.0
30°	772.5	755.0	841.7	722.4	673.0
32.5°	506.8	484.5	512.3	459.8	420.1
35°	338.9	346.1	324.6	322.2	272.1
37.5°	211.6	243.4	214.8	229.1	175.0
40°	136.8	176.6	152.0	167.9	128.9
42.5°	112.2	136.0	124.9	132.9	114.6
45°	89.1	110.6	110.6	110.6	89.9
47.5°	49.3	74.0	94.7	75.6	52.5
50°	27.8	37.4	73.2	39.0	29.4
52.5°	19.1	21.5	50.1	22.3	19.9
55°	14.3	15.1	27.0	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.8	8.8	10.3	9.5	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)