

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: P750678

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750678
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-EU4DR3055659030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5798.7 lumens
Efficiency: N/A
Efficacy: 90.0 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 (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

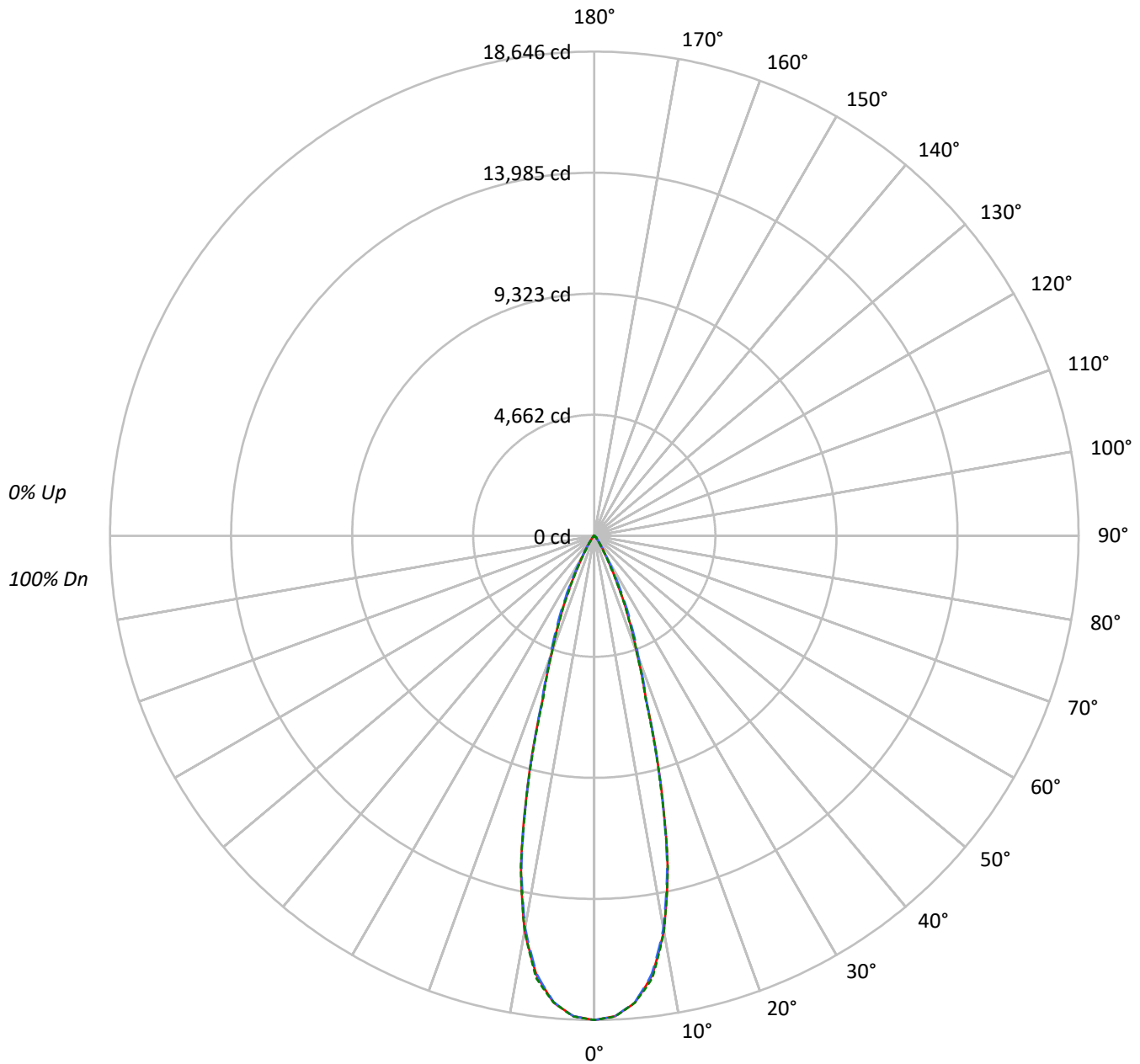


Downlight

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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	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°	1427198	1427198	1427198
5°	1386225	1384604	1386294
10°	1200683	1192212	1200396
15°	783386	779178	775263
20°	389538	404159	389017
25°	196226	221275	192206
30°	78565	85601	68454
35°	36442	34901	29257
40°	15737	17466	14818
45°	11095	13769	11193
50°	3811	10027	4037
55°	2202	4150	2322
60°	1546	1822	1546
65°	996	996	996
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1639.6	28.3
10°-20°	2640.6	45.5
20°-30°	1141.1	19.7
30°-40°	260.1	4.5
40°-50°	89.3	1.5
50°-60°	21.8	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°	5421.2	93.5
0°-40°	5681.3	98.0
0°-60°	5792.4	99.9
0°-90°	5798.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5798.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18646	18646	18646	18646	18646	
5°	18041	18024	18020	18058	18042	1641
15°	9886	9767	9833	9801	9783	2647
25°	2323	2411	2620	2350	2276	1112
35°	390	398	374	371	313	265
45°	102	127	127	127	103	73
55°	16	17	31	18	17	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°	18645.6	18645.6	18645.6	18645.6	18645.6
2.5°	18522.0	18509.2	18516.5	18525.7	18529.3
5°	18041.4	18024.0	18020.3	18057.9	18042.3
7.5°	17071.9	17047.2	17009.7	17094.8	17174.5
10°	15448.0	15420.5	15339.0	15379.3	15444.3
12.5°	13050.4	12961.6	12959.8	13088.0	13070.6
15°	9885.8	9766.8	9832.7	9800.6	9783.3
17.5°	6647.9	6602.1	6690.0	6663.4	6549.0
20°	4782.2	4794.1	4961.7	4877.4	4775.8
22.5°	3489.6	3532.7	3731.3	3514.4	3434.7
25°	2323.4	2411.3	2620.0	2349.9	2275.8
27.5°	1429.0	1469.3	1680.7	1410.7	1370.4
30°	888.9	868.7	968.5	831.2	774.5
32.5°	583.1	557.5	589.5	529.1	483.3
35°	390.0	398.2	373.5	370.8	313.1
37.5°	243.5	280.1	247.2	263.6	201.4
40°	157.5	203.2	174.8	193.2	148.3
42.5°	129.1	156.5	143.7	152.9	131.8
45°	102.5	127.2	127.2	127.2	103.4
47.5°	56.8	85.1	108.9	87.0	60.4
50°	32.0	43.0	84.2	44.9	33.9
52.5°	22.0	24.7	57.7	25.6	22.9
55°	16.5	17.4	31.1	18.3	17.4
57.5°	12.8	13.7	16.5	13.7	12.8
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.2	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.7	3.7	3.7	3.7	3.7
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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)