

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: P779256

Luminaire Tested: LER4D08D010-EC4DR300210IC9050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779256
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: LER4D08D010-EC4DR300210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW 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: 772.3 lumens
Efficiency: N/A
Efficacy: 86.8 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): 8.9
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



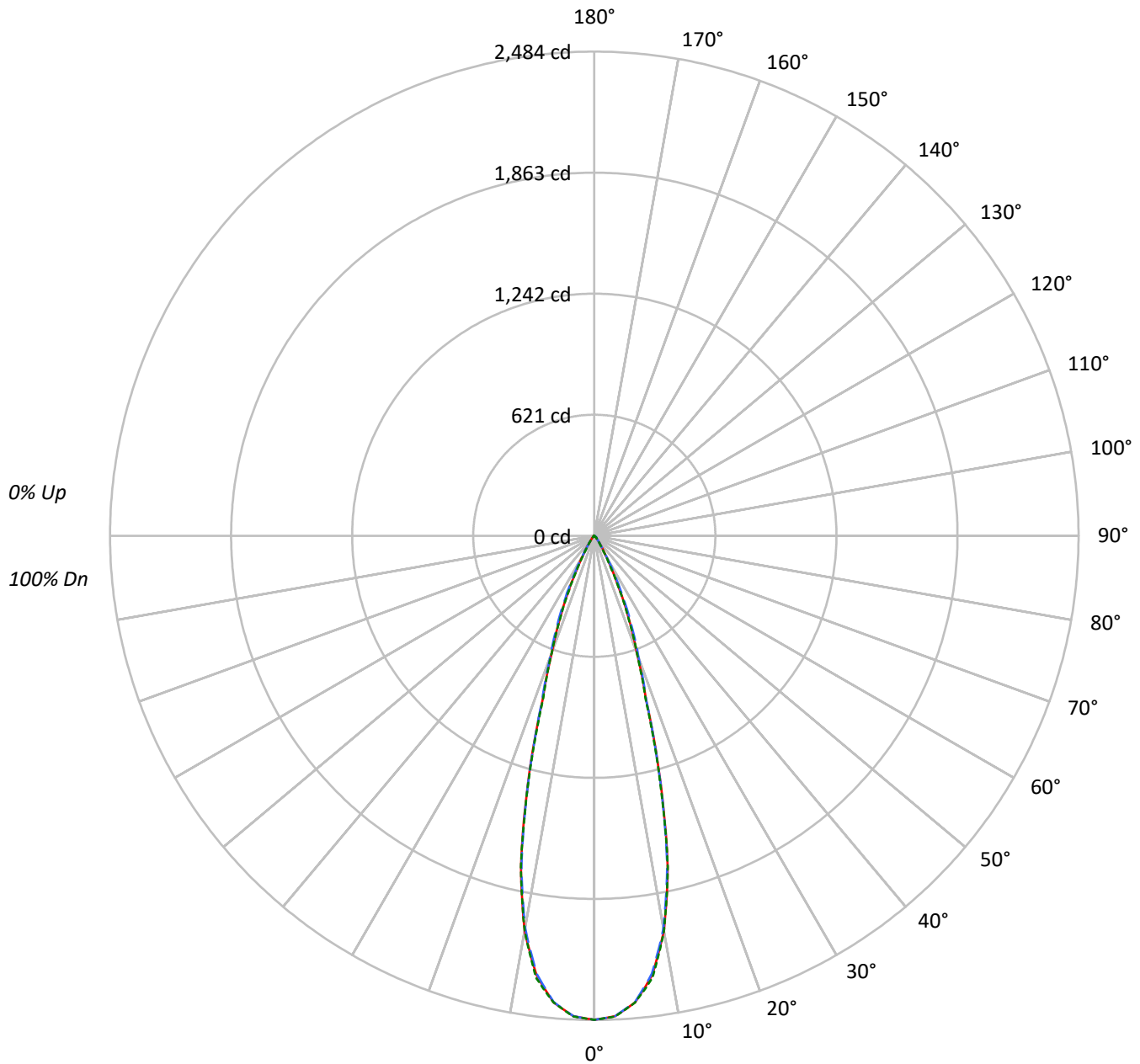
Downlight



TEST NUMBER: P779256

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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					0
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	87	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°	190096	190096	190096
5°	184644	184429	184652
10°	159925	158798	159886
15°	104348	103785	103262
20°	51887	53834	51814
25°	26139	29475	25599
30°	10465	11402	9112
35°	4859	4644	3897
40°	2098	2328	1978
45°	1472	1840	1494
50°	500	1334	536
55°	294	547	307
60°	199	245	199
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	28.3
10°-20°	351.7	45.5
20°-30°	152.0	19.7
30°-40°	34.6	4.5
40°-50°	11.9	1.5
50°-60°	2.9	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	722.1	93.5
0°-40°	756.7	98.0
0°-60°	771.5	99.9
0°-90°	772.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2403	2401	2400	2405	2403	219
15°	1317	1301	1310	1305	1303	353
25°	310	321	349	313	303	148
35°	52	53	50	49	42	35
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	2483.5	2483.5	2483.5	2483.5	2483.5
2.5°	2467.1	2465.4	2466.3	2467.6	2468.0
5°	2403.1	2400.7	2400.3	2405.2	2403.2
7.5°	2273.9	2270.7	2265.6	2277.0	2287.6
10°	2057.6	2054.0	2043.1	2048.5	2057.1
12.5°	1738.3	1726.5	1726.2	1743.3	1741.0
15°	1316.8	1300.9	1309.7	1305.4	1303.1
17.5°	885.5	879.4	891.1	887.6	872.3
20°	637.0	638.6	660.9	649.7	636.1
22.5°	464.8	470.6	497.0	468.1	457.5
25°	309.5	321.2	349.0	313.0	303.1
27.5°	190.3	195.7	223.9	187.9	182.5
30°	118.4	115.7	129.0	110.7	103.1
32.5°	77.7	74.3	78.6	70.5	64.4
35°	52.0	53.1	49.7	49.4	41.7
37.5°	32.4	37.3	32.9	35.1	26.8
40°	21.0	27.0	23.3	25.7	19.8
42.5°	17.2	20.9	19.1	20.3	17.5
45°	13.6	17.0	17.0	17.0	13.8
47.5°	7.6	11.3	14.5	11.6	8.0
50°	4.2	5.7	11.2	6.0	4.5
52.5°	2.9	3.3	7.7	3.4	3.0
55°	2.2	2.3	4.1	2.5	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.3	1.3	1.6	1.5	1.3
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)