

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: P779564

Luminaire Tested: LER4D10D010-EC4DR300210IC9040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779564
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: LER4D10D010-EC4DR300210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1044.9 lumens
Efficiency: N/A
Efficacy: 89.3 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): 11.7
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



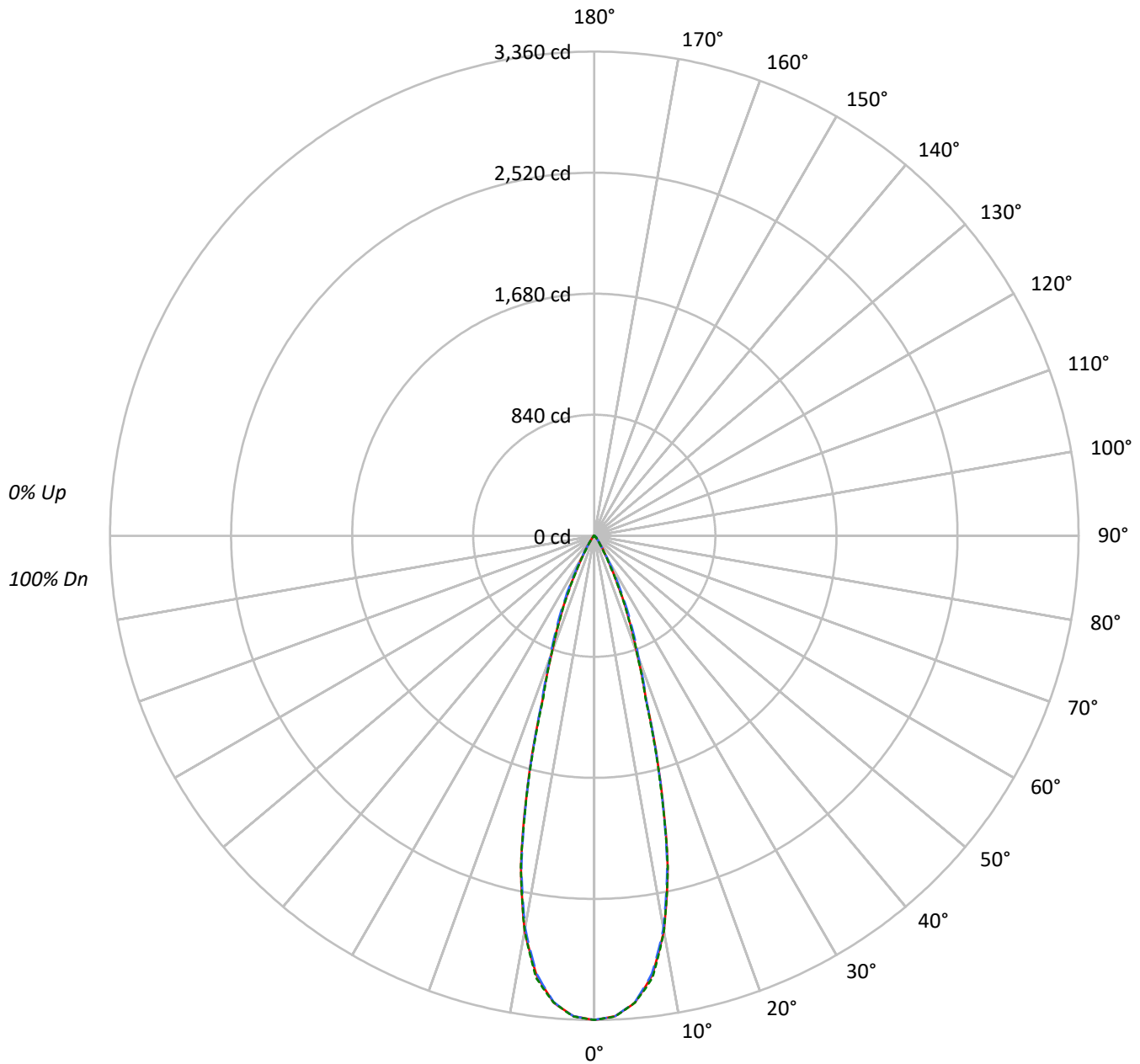
Downlight



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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					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	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°	257171	257171	257171
5°	249785	249493	249801
10°	216353	214830	216299
15°	141164	140404	139698
20°	70190	72821	70101
25°	35362	39872	34636
30°	14159	15423	12339
35°	6560	6289	5270
40°	2838	3147	2668
45°	1992	2479	2013
50°	691	1810	726
55°	400	747	427
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2479 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	28.3
10°-20°	475.8	45.5
20°-30°	205.6	19.7
30°-40°	46.9	4.5
40°-50°	16.1	1.5
50°-60°	3.9	0.4
60°-70°	1.0	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°	976.9	93.5
0°-40°	1023.7	98.0
0°-60°	1043.8	99.9
0°-90°	1044.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3360	3360	3360	3360	3360	
5°	3251	3248	3247	3254	3251	296
15°	1781	1760	1772	1766	1763	477
25°	419	434	472	424	410	200
35°	70	72	67	67	56	48
45°	18	23	23	23	19	13
55°	3	3	6	3	3	3
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°	3359.8	3359.8	3359.8	3359.8	3359.8
2.5°	3337.6	3335.3	3336.6	3338.2	3338.9
5°	3250.9	3247.8	3247.1	3253.9	3251.1
7.5°	3076.2	3071.8	3065.1	3080.4	3094.7
10°	2783.6	2778.7	2764.0	2771.2	2782.9
12.5°	2351.6	2335.6	2335.3	2358.4	2355.2
15°	1781.4	1759.9	1771.8	1766.0	1762.9
17.5°	1197.9	1189.7	1205.5	1200.7	1180.1
20°	861.7	863.9	894.0	878.9	860.6
22.5°	628.8	636.5	672.4	633.3	618.9
25°	418.7	434.5	472.1	423.5	410.1
27.5°	257.5	264.8	302.9	254.2	246.9
30°	160.2	156.5	174.5	149.8	139.6
32.5°	105.1	100.4	106.2	95.3	87.1
35°	70.2	71.7	67.3	66.8	56.4
37.5°	43.9	50.5	44.5	47.5	36.3
40°	28.4	36.6	31.5	34.8	26.7
42.5°	23.3	28.2	25.9	27.6	23.8
45°	18.4	22.9	22.9	22.9	18.6
47.5°	10.3	15.4	19.7	15.7	10.9
50°	5.8	7.7	15.2	8.1	6.1
52.5°	4.0	4.5	10.4	4.6	4.1
55°	3.0	3.2	5.6	3.3	3.2
57.5°	2.3	2.5	3.0	2.5	2.3
60°	1.8	1.8	2.1	2.0	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)