

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: P779868

Luminaire Tested: LER4D15D010-EC4DR300215IC9030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779868
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: LER4D15D010-EC4DR300215IC9030-4LBS1B
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: 1294.2 lumens
Efficiency: N/A
Efficacy: 81.9 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): 15.8
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



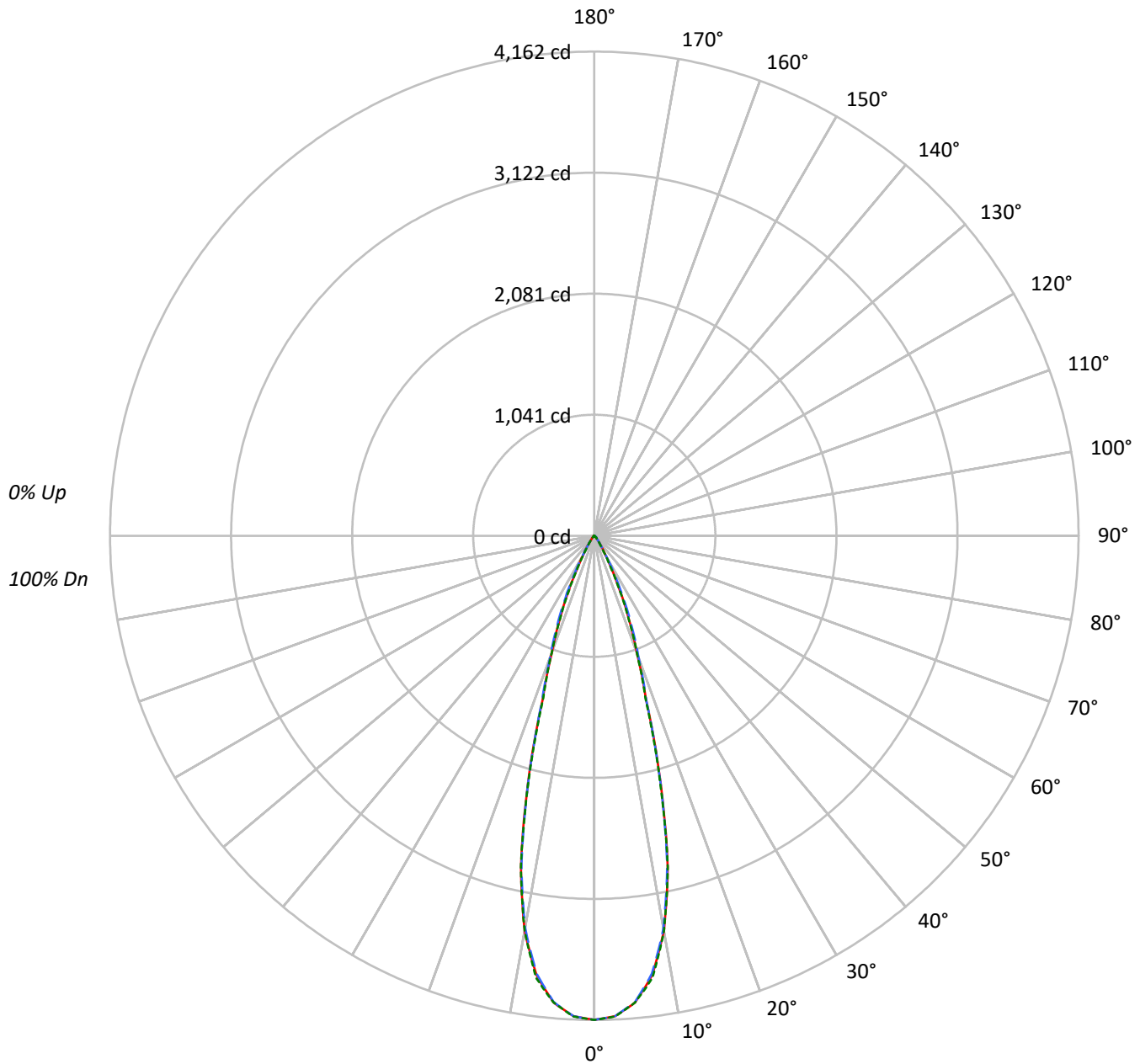
Downlight



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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°	318535	318535	318535
5°	309387	309026	309410
10°	267978	266089	267915
15°	174843	173908	173028
20°	86946	90204	86824
25°	43799	49390	42895
30°	17536	19109	15282
35°	8129	7793	6532
40°	3507	3897	3307
45°	2479	3074	2501
50°	857	2239	905
55°	494	921	520
60°	337	398	337
65°	217	217	217
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	28.3
10°-20°	589.3	45.5
20°-30°	254.7	19.7
30°-40°	58.0	4.5
40°-50°	19.9	1.5
50°-60°	4.9	0.4
60°-70°	1.3	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°	1210.0	93.5
0°-40°	1268.0	98.0
0°-60°	1292.8	99.9
0°-90°	1294.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4162	4162	4162	4162	4162	
5°	4027	4023	4022	4030	4027	366
15°	2206	2180	2195	2187	2184	591
25°	519	538	585	524	508	248
35°	87	89	83	83	70	59
45°	23	28	28	28	23	16
55°	4	4	7	4	4	4
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4161.5	4161.5	4161.5	4161.5	4161.5
2.5°	4133.9	4131.0	4132.7	4134.7	4135.6
5°	4026.6	4022.7	4021.9	4030.3	4026.9
7.5°	3810.3	3804.7	3796.4	3815.4	3833.2
10°	3447.8	3441.7	3423.5	3432.5	3447.0
12.5°	2912.7	2892.9	2892.5	2921.1	2917.2
15°	2206.4	2179.8	2194.6	2187.4	2183.5
17.5°	1483.7	1473.5	1493.1	1487.2	1461.7
20°	1067.4	1070.0	1107.4	1088.6	1065.9
22.5°	778.9	788.4	832.8	784.4	766.6
25°	518.6	538.2	584.8	524.5	507.9
27.5°	319.0	327.9	375.1	314.8	305.8
30°	198.4	193.9	216.2	185.5	172.9
32.5°	130.2	124.4	131.6	118.1	107.9
35°	87.0	88.9	83.4	82.7	69.9
37.5°	54.4	62.5	55.2	58.8	45.0
40°	35.1	45.4	39.0	43.1	33.1
42.5°	28.8	34.9	32.1	34.1	29.4
45°	22.9	28.4	28.4	28.4	23.1
47.5°	12.7	19.0	24.3	19.4	13.5
50°	7.2	9.6	18.8	10.0	7.6
52.5°	4.9	5.5	12.9	5.7	5.1
55°	3.7	3.9	6.9	4.1	3.9
57.5°	2.9	3.0	3.7	3.0	2.9
60°	2.2	2.2	2.6	2.5	2.2
62.5°	1.7	1.7	1.8	1.7	1.7
65°	1.2	1.2	1.2	1.2	1.2
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	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)