

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: P779250

Luminaire Tested: LER4D08D010-EC4DR300210IC9035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779250
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-EC4DR300210IC9035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 851.8 lumens
Efficiency: N/A
Efficacy: 95.7 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



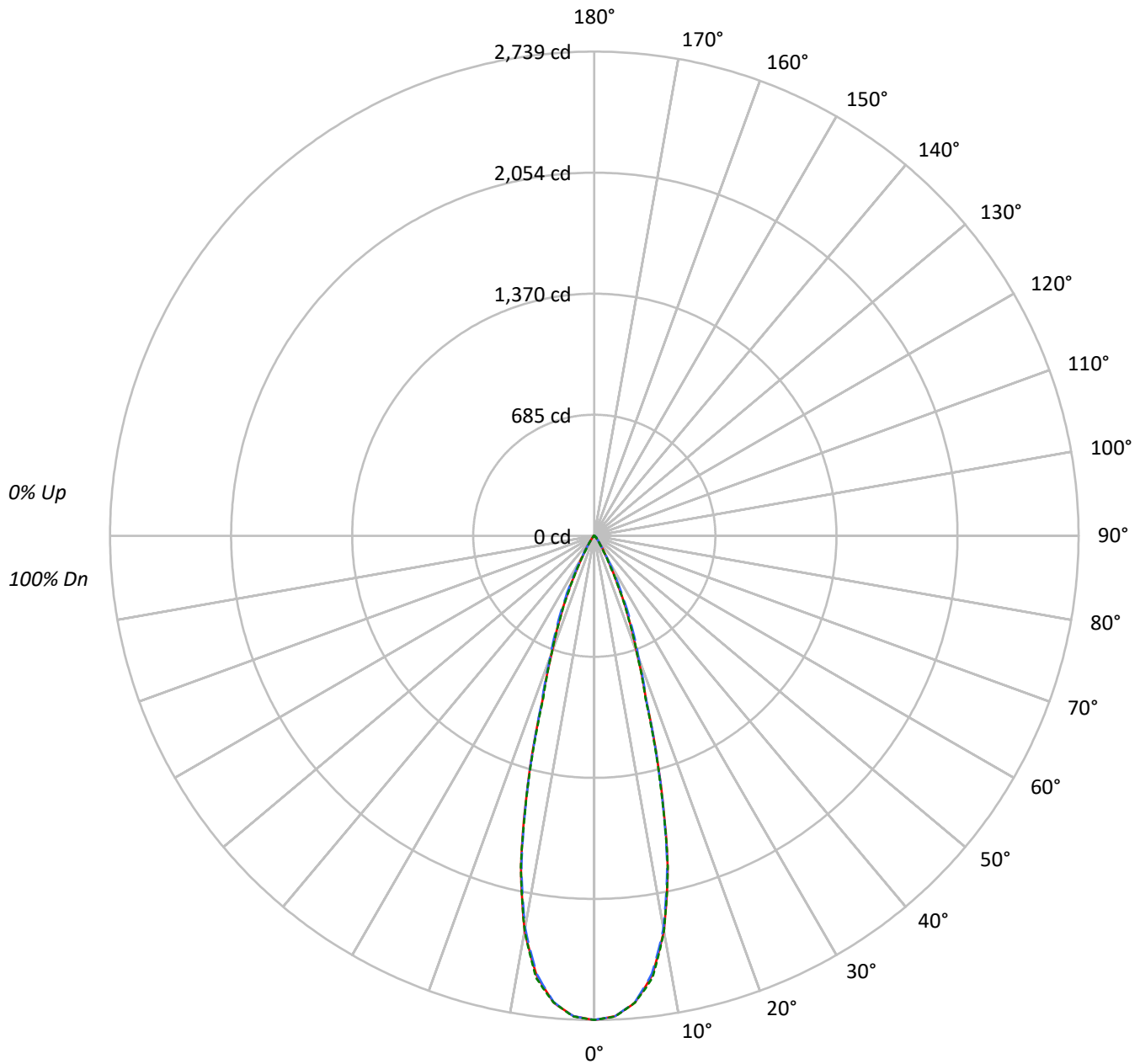
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	209637	209637	209637
5°	203622	203384	203630
10°	176364	175120	176317
15°	115070	114451	113873
20°	57215	59365	57141
25°	28816	32507	28234
30°	11543	12577	10049
35°	5354	5130	4298
40°	2308	2568	2178
45°	1635	2024	1645
50°	560	1477	595
55°	320	614	347
60°	230	276	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	28.3
10°-20°	387.9	45.5
20°-30°	167.6	19.7
30°-40°	38.2	4.5
40°-50°	13.1	1.5
50°-60°	3.2	0.4
60°-70°	0.8	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°	796.3	93.5
0°-40°	834.5	98.0
0°-60°	850.9	99.9
0°-90°	851.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	851.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2739	2739	2739	2739	2739	
5°	2650	2648	2647	2652	2650	241
15°	1452	1435	1444	1440	1437	389
25°	341	354	385	345	334	163
35°	57	58	55	54	46	39
45°	15	19	19	19	15	11
55°	2	3	5	3	3	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°	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	2720.7	2718.8	2719.9	2721.2	2721.7
5°	2650.1	2647.5	2647.0	2652.5	2650.2
7.5°	2507.6	2504.0	2498.5	2511.0	2522.7
10°	2269.1	2265.0	2253.1	2259.0	2268.5
12.5°	1916.9	1903.9	1903.6	1922.5	1919.9
15°	1452.1	1434.6	1444.3	1439.6	1437.0
17.5°	976.5	969.8	982.7	978.8	962.0
20°	702.4	704.2	728.8	716.4	701.5
22.5°	512.6	518.9	548.1	516.2	504.5
25°	341.2	354.2	384.9	345.1	334.3
27.5°	209.9	215.8	246.9	207.2	201.3
30°	130.6	127.6	142.3	122.1	113.7
32.5°	85.7	81.9	86.6	77.7	71.0
35°	57.3	58.5	54.9	54.4	46.0
37.5°	35.8	41.1	36.3	38.7	29.6
40°	23.1	29.9	25.7	28.4	21.8
42.5°	19.0	23.0	21.1	22.5	19.4
45°	15.1	18.7	18.7	18.7	15.2
47.5°	8.4	12.5	16.0	12.8	8.9
50°	4.7	6.3	12.4	6.6	5.0
52.5°	3.2	3.6	8.5	3.8	3.4
55°	2.4	2.6	4.6	2.7	2.6
57.5°	1.9	2.0	2.4	2.0	1.9
60°	1.5	1.5	1.8	1.6	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	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)