

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: P778630

Luminaire Tested: LER4D02D010-EC4DR300210IC9040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778630
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: LER4D02D010-EC4DR300210IC9040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 408.1 lumens
Efficiency: N/A
Efficacy: 80.0 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): 5.1
Input Voltage (V): NR
Input Current (Ain): 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



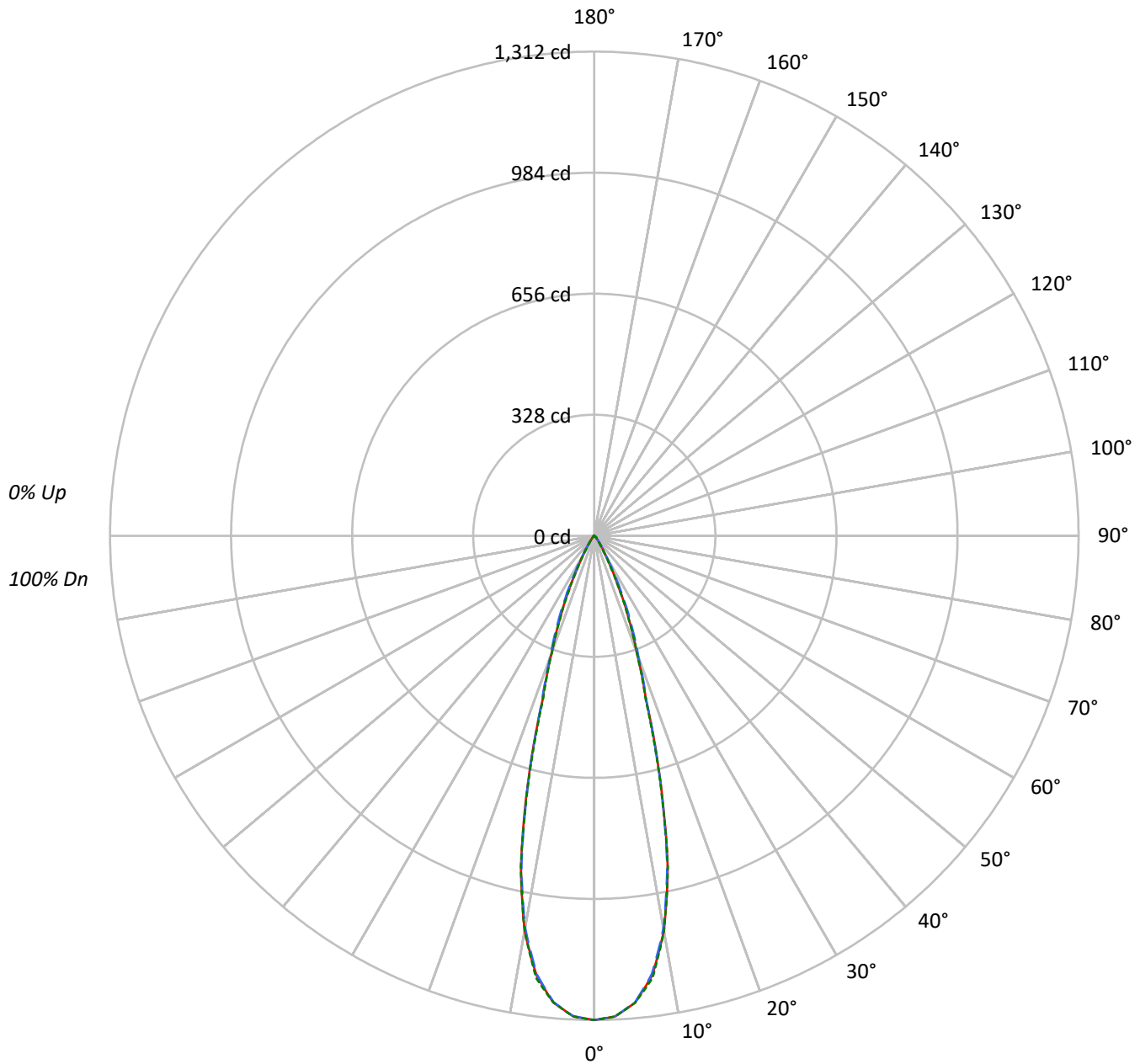
Downlight



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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	87	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°	100440	100440	100440
5°	97558	97443	97558
10°	84494	83903	84478
15°	55130	54837	54559
20°	27418	28444	27377
25°	13809	15574	13521
30°	5533	6028	4817
35°	2560	2458	2065
40°	1109	1229	1039
45°	779	963	790
50°	262	703	286
55°	147	294	160
60°	107	138	107
65°	72	72	72
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	28.3
10°-20°	185.8	45.5
20°-30°	80.3	19.7
30°-40°	18.3	4.5
40°-50°	6.3	1.5
50°-60°	1.5	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	381.5	93.5
0°-40°	399.8	98.0
0°-60°	407.6	99.9
0°-90°	408.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	408.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1270	1268	1268	1271	1270	115
15°	696	687	692	690	688	186
25°	164	170	184	165	160	78
35°	27	28	26	26	22	19
45°	7	9	9	9	7	5
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1303.5	1302.6	1303.1	1303.7	1304.0
5°	1269.7	1268.5	1268.2	1270.8	1269.7
7.5°	1201.4	1199.7	1197.1	1203.0	1208.6
10°	1087.1	1085.2	1079.5	1082.3	1086.9
12.5°	918.4	912.2	912.0	921.1	919.8
15°	695.7	687.3	692.0	689.7	688.5
17.5°	467.8	464.6	470.8	469.0	460.9
20°	336.6	337.4	349.2	343.3	336.1
22.5°	245.6	248.6	262.6	247.3	241.7
25°	163.5	169.7	184.4	165.4	160.1
27.5°	100.6	103.4	118.3	99.3	96.4
30°	62.6	61.1	68.2	58.5	54.5
32.5°	41.0	39.2	41.5	37.2	34.0
35°	27.4	28.0	26.3	26.1	22.1
37.5°	17.1	19.7	17.4	18.6	14.2
40°	11.1	14.3	12.3	13.6	10.4
42.5°	9.1	11.0	10.1	10.8	9.3
45°	7.2	8.9	8.9	8.9	7.3
47.5°	4.0	6.0	7.7	6.1	4.2
50°	2.2	3.0	5.9	3.2	2.4
52.5°	1.5	1.7	4.1	1.8	1.6
55°	1.1	1.2	2.2	1.3	1.2
57.5°	0.9	1.0	1.1	1.0	0.9
60°	0.7	0.7	0.9	0.7	0.7
62.5°	0.5	0.5	0.6	0.5	0.5
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	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)