

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: P777605

Luminaire Tested: LERS4D08D010-EC4DR150210IC9024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D08D010-EC4DR150210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 693.3 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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



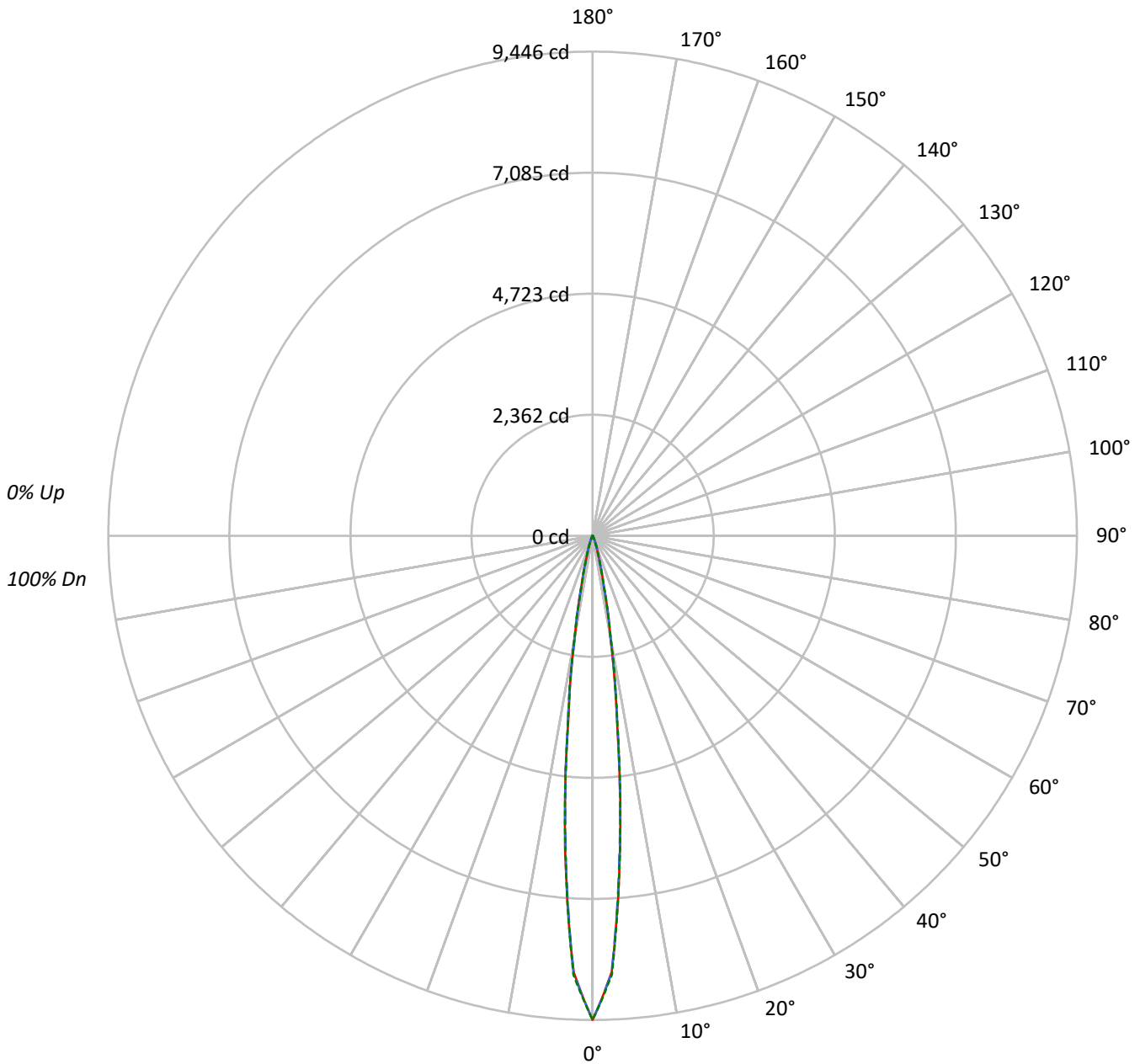
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1062908	1062908	1062908
5°	624621	616532	621410
10°	186419	187726	190599
15°	46373	47276	45817
20°	13877	16070	14172
25°	4892	6232	4954
30°	1797	2366	1827
35°	900	1017	871
40°	568	625	568
45°	420	448	420
50°	334	334	334
55°	278	278	278
60°	225	225	225
65°	171	171	171
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 448 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	64.9
10°-20°	185.0	26.7
20°-30°	36.7	5.3
30°-40°	9.2	1.3
40°-50°	4.8	0.7
50°-60°	3.6	0.5
60°-70°	2.5	0.4
70°-80°	1.4	0.2
80°-90°	0.4	0.1
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°	671.4	96.8
0°-40°	680.6	98.2
0°-60°	688.9	99.4
0°-90°	693.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9446	9446	9446	9446	9446	
5°	6146	6083	6066	6108	6114	449
15°	534	544	544	535	528	183
25°	63	71	80	71	64	33
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	1
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°	9446.4	9446.4	9446.4	9446.4	9446.4
2.5°	8521.1	8528.3	8531.1	8539.5	8570.7
5°	6146.1	6082.9	6066.5	6108.5	6114.5
7.5°	3640.7	3653.5	3700.3	3710.7	3673.1
10°	1997.9	2014.3	2011.9	2026.3	2042.7
12.5°	1021.7	1008.9	1004.9	1021.3	998.6
15°	533.9	543.9	544.3	534.7	527.5
17.5°	287.1	298.7	317.9	302.3	278.3
20°	169.6	180.0	196.4	183.6	173.2
22.5°	104.8	113.2	124.8	114.8	106.4
25°	62.8	71.2	80.0	70.8	63.6
27.5°	37.2	44.4	50.0	44.0	36.8
30°	24.0	28.0	31.6	27.6	24.4
32.5°	16.8	18.4	20.0	18.4	16.8
35°	12.4	13.2	14.0	13.2	12.0
37.5°	9.6	10.4	10.8	10.0	9.2
40°	8.0	8.4	8.8	8.4	8.0
42.5°	6.8	7.2	7.2	7.2	6.8
45°	6.0	6.0	6.4	6.0	6.0
47.5°	5.2	5.2	5.6	5.2	5.2
50°	4.8	4.8	4.8	4.8	4.8
52.5°	4.4	4.4	4.4	4.4	4.4
55°	4.0	4.0	4.0	4.0	4.0
57.5°	3.6	3.6	3.6	3.6	3.6
60°	3.2	3.2	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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