

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: P777293

Luminaire Tested: LERS4D05D010-EC4DR150210IC9024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777293
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: LERS4D05D010-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: 589.3 lumens
Efficiency: N/A
Efficacy: 78.6 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): 7.5
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



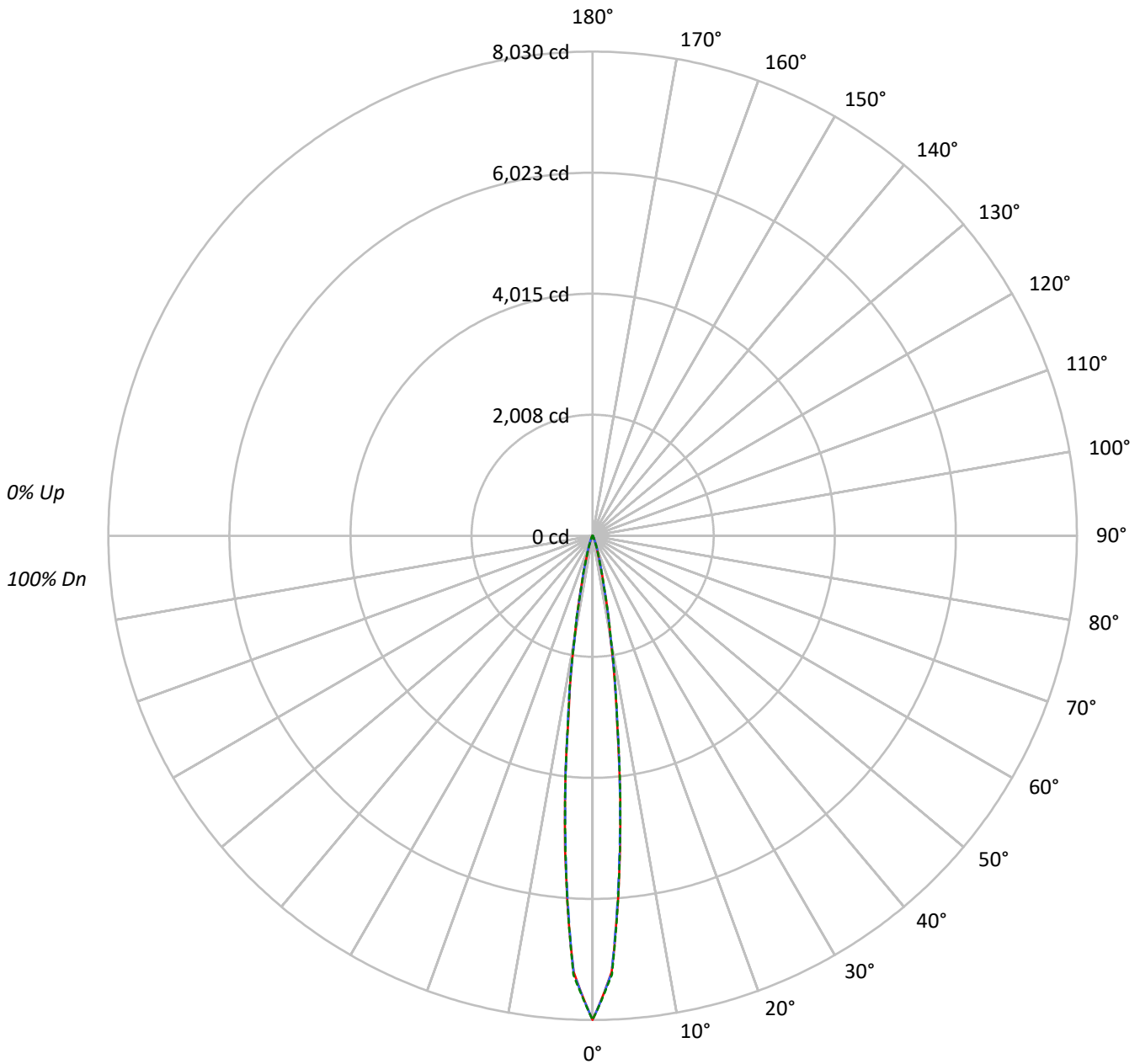
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	903479	903479	903479
5°	530930	524049	528196
10°	158455	159565	162010
15°	39416	40180	38938
20°	11791	13656	12044
25°	4160	5297	4207
30°	1528	2014	1550
35°	763	864	741
40°	483	533	483
45°	357	378	357
50°	285	285	285
55°	237	237	237
60°	190	190	190
65°	143	143	143
70°	124	124	124
75°	76	76	106
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 378 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	64.9
10°-20°	157.2	26.7
20°-30°	31.2	5.3
30°-40°	7.8	1.3
40°-50°	4.1	0.7
50°-60°	3.0	0.5
60°-70°	2.1	0.4
70°-80°	1.2	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°	570.7	96.8
0°-40°	578.5	98.2
0°-60°	585.6	99.4
0°-90°	589.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8030	8030	8030	8030	8030	
5°	5224	5170	5156	5192	5197	381
15°	454	462	463	454	448	156
25°	53	60	68	60	54	28
35°	10	11	12	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	8029.5	8029.5	8029.5	8029.5	8029.5
2.5°	7242.9	7249.0	7251.4	7258.5	7285.1
5°	5224.2	5170.5	5156.5	5192.2	5197.3
7.5°	3094.6	3105.5	3145.2	3154.1	3122.1
10°	1698.2	1712.2	1710.1	1722.4	1736.3
12.5°	868.5	857.6	854.2	868.1	848.8
15°	453.8	462.3	462.6	454.5	448.3
17.5°	244.1	253.9	270.2	257.0	236.6
20°	144.1	153.0	166.9	156.0	147.2
22.5°	89.1	96.2	106.1	97.6	90.4
25°	53.4	60.5	68.0	60.2	54.0
27.5°	31.6	37.7	42.5	37.4	31.3
30°	20.4	23.8	26.9	23.5	20.7
32.5°	14.3	15.6	17.0	15.6	14.3
35°	10.5	11.2	11.9	11.2	10.2
37.5°	8.2	8.8	9.2	8.5	7.8
40°	6.8	7.1	7.5	7.1	6.8
42.5°	5.8	6.1	6.1	6.1	5.8
45°	5.1	5.1	5.4	5.1	5.1
47.5°	4.4	4.4	4.8	4.4	4.4
50°	4.1	4.1	4.1	4.1	4.1
52.5°	3.7	3.7	3.7	3.7	3.7
55°	3.4	3.4	3.4	3.4	3.4
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.7	2.7	2.7	2.7	2.7
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.4
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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