

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: P776993

Luminaire Tested: LERS4D02D010-EC4DR150210IC9035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P776993
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: LERS4D02D010-EC4DR150210IC9035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 391.2 lumens
Efficiency: N/A
Efficacy: 76.7 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): 5.1
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



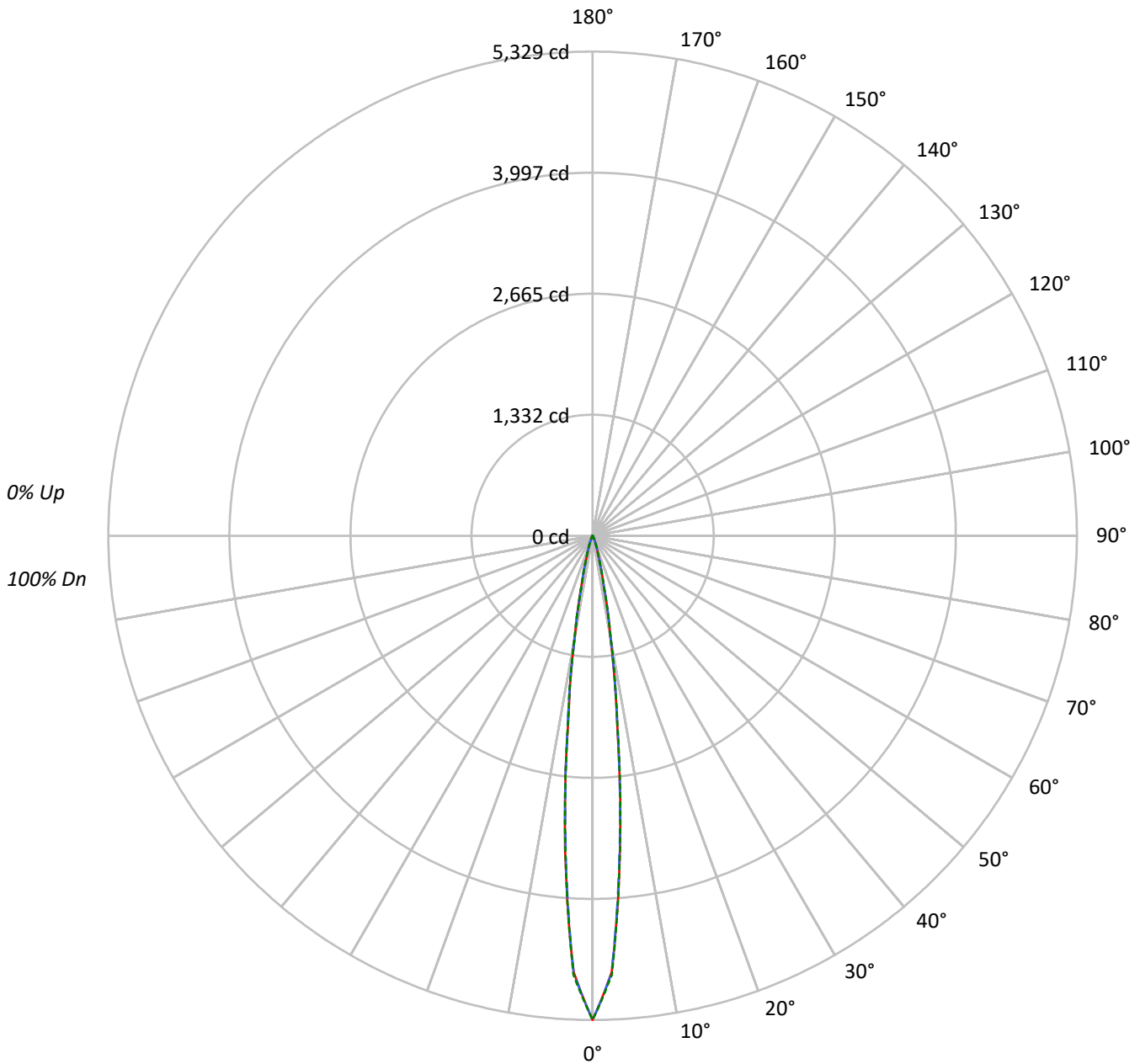
Downlight



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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	105	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	93	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	87	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°	599630	599630	599630
5°	352368	347805	350559
10°	105167	105904	107528
15°	26161	26665	25849
20°	7830	9066	7994
25°	2758	3513	2797
30°	1011	1333	1033
35°	508	574	494
40°	320	355	320
45°	238	252	238
50°	188	188	188
55°	160	160	160
60°	126	126	126
65°	100	100	100
70°	80	80	80
75°	53	53	68
80°	39	39	39
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 252 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	64.8
10°-20°	104.3	26.7
20°-30°	20.7	5.3
30°-40°	5.2	1.3
40°-50°	2.7	0.7
50°-60°	2.0	0.5
60°-70°	1.4	0.4
70°-80°	0.8	0.2
80°-90°	0.3	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°	378.7	96.8
0°-40°	383.9	98.1
0°-60°	388.7	99.4
0°-90°	391.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	391.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5329	5329	5329	5329	5329	
5°	3467	3432	3422	3446	3449	253
15°	301	307	307	302	298	103
25°	35	40	45	40	36	19
35°	7	7	8	7	7	5
45°	3	3	4	3	3	3
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	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°	5329.1	5329.1	5329.1	5329.1	5329.1
2.5°	4807.1	4811.1	4812.7	4817.4	4835.0
5°	3467.2	3431.6	3422.3	3446.0	3449.4
7.5°	2053.9	2061.1	2087.5	2093.3	2072.1
10°	1127.1	1136.3	1135.0	1143.1	1152.4
12.5°	576.4	569.2	566.9	576.2	563.3
15°	301.2	306.8	307.0	301.6	297.6
17.5°	162.0	168.5	179.4	170.6	157.0
20°	95.7	101.5	110.8	103.6	97.7
22.5°	59.1	63.8	70.4	64.7	60.0
25°	35.4	40.2	45.1	39.9	35.9
27.5°	21.0	25.0	28.2	24.8	20.8
30°	13.5	15.8	17.8	15.6	13.8
32.5°	9.5	10.4	11.3	10.4	9.5
35°	7.0	7.4	7.9	7.4	6.8
37.5°	5.4	5.9	6.1	5.6	5.2
40°	4.5	4.7	5.0	4.7	4.5
42.5°	3.8	4.1	4.1	4.1	3.8
45°	3.4	3.4	3.6	3.4	3.4
47.5°	2.9	2.9	3.2	2.9	2.9
50°	2.7	2.7	2.7	2.7	2.7
52.5°	2.5	2.5	2.5	2.5	2.5
55°	2.3	2.3	2.3	2.3	2.3
57.5°	2.0	2.0	2.0	2.0	2.0
60°	1.8	1.8	1.8	1.8	1.8
62.5°	1.6	1.6	1.6	1.6	1.6
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.1	1.1	1.1	1.1	1.1
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.9
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2
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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