

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: P777928

Luminaire Tested: LERS4D10D010-EC4DR150210IC9035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777928
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: LERS4D10D010-EC4DR150210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1052.6 lumens
Efficiency: N/A
Efficacy: 90.0 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): 11.7
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



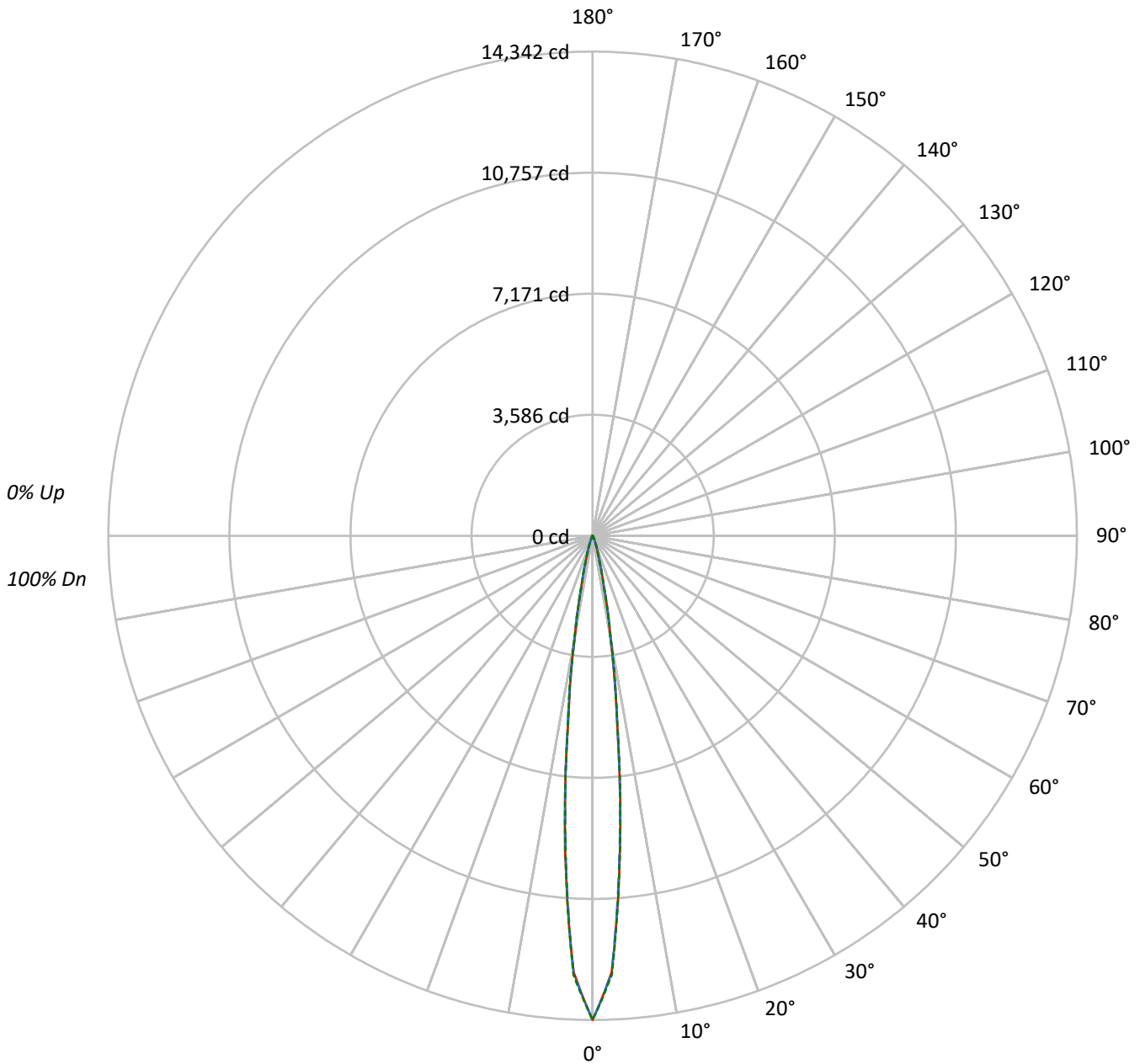
Downlight



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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°	1613784	1613784	1613784
5°	948340	936063	943462
10°	283039	285017	289384
15°	70406	71770	69555
20°	21061	24391	21511
25°	7424	9457	7517
30°	2726	3594	2771
35°	1365	1547	1322
40°	859	952	859
45°	637	679	637
50°	508	508	508
55°	425	425	425
60°	344	344	344
65°	257	257	257
70°	219	219	219
75°	136	136	181
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 679 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.7	64.9
10°-20°	280.8	26.7
20°-30°	55.8	5.3
30°-40°	13.9	1.3
40°-50°	7.3	0.7
50°-60°	5.5	0.5
60°-70°	3.8	0.4
70°-80°	2.2	0.2
80°-90°	0.7	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°	1019.3	96.8
0°-40°	1033.2	98.2
0°-60°	1046.0	99.4
0°-90°	1052.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1052.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14342	14342	14342	14342	14342	
5°	9331	9235	9211	9274	9283	681
15°	811	826	826	812	801	278
25°	95	108	121	108	96	50
35°	19	20	21	20	18	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14342.2	14342.2	14342.2	14342.2	14342.2
2.5°	12937.3	12948.2	12952.5	12965.2	13012.6
5°	9331.4	9235.4	9210.6	9274.3	9283.4
7.5°	5527.5	5547.0	5618.0	5633.8	5576.7
10°	3033.4	3058.2	3054.6	3076.5	3101.4
12.5°	1551.3	1531.9	1525.8	1550.7	1516.1
15°	810.6	825.7	826.3	811.8	800.8
17.5°	435.9	453.5	482.7	459.0	422.6
20°	257.4	273.2	298.1	278.7	262.9
22.5°	159.1	171.8	189.4	174.3	161.5
25°	95.3	108.1	121.4	107.5	96.5
27.5°	56.5	67.4	75.9	66.8	55.9
30°	36.4	42.5	48.0	41.9	37.0
32.5°	25.5	27.9	30.4	27.9	25.5
35°	18.8	20.0	21.3	20.0	18.2
37.5°	14.6	15.8	16.4	15.2	14.0
40°	12.1	12.8	13.4	12.8	12.1
42.5°	10.3	10.9	10.9	10.9	10.3
45°	9.1	9.1	9.7	9.1	9.1
47.5°	7.9	7.9	8.5	7.9	7.9
50°	7.3	7.3	7.3	7.3	7.3
52.5°	6.7	6.7	6.7	6.7	6.7
55°	6.1	6.1	6.1	6.1	6.1
57.5°	5.5	5.5	5.5	5.5	5.5
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.0	3.0	3.0	3.0	3.0
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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