

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: P777926

Luminaire Tested: LERS4D10D010-EC4DR150210IC9030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777926
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-EC4DR150210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1115.5 lumens
Efficiency: N/A
Efficacy: 95.3 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



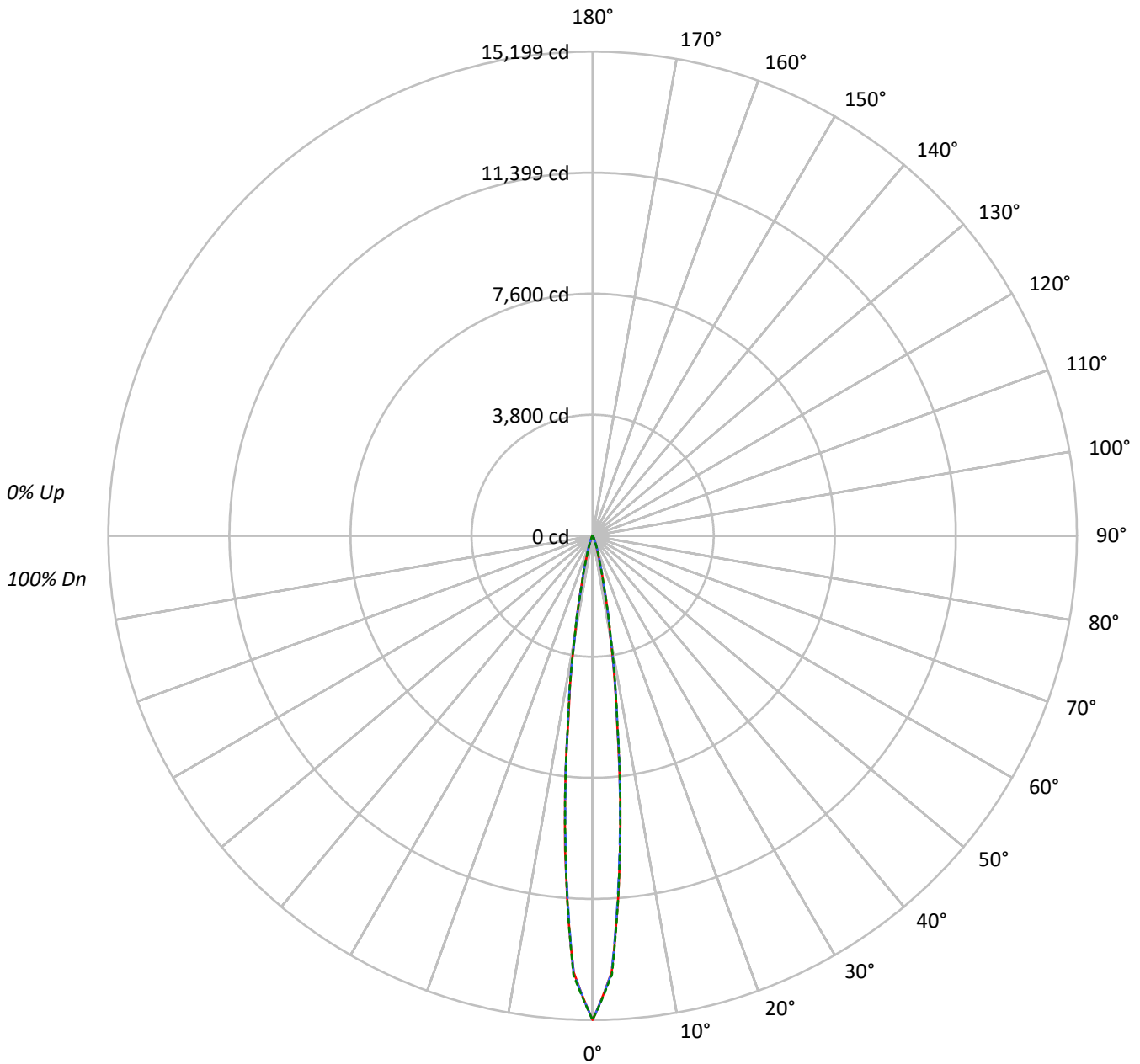
Downlight



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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°	1710202	1710202	1710202
5°	1004998	991979	999825
10°	299947	302046	306665
15°	74610	76061	73715
20°	22321	25848	22796
25°	7868	10026	7969
30°	2890	3804	2935
35°	1445	1634	1402
40°	916	1008	916
45°	679	721	679
50°	535	535	535
55°	445	445	445
60°	358	358	358
65°	278	278	278
70°	234	234	234
75°	144	144	197
80°	102	102	102
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 721 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.5	64.9
10°-20°	297.6	26.7
20°-30°	59.1	5.3
30°-40°	14.7	1.3
40°-50°	7.8	0.7
50°-60°	5.7	0.5
60°-70°	4.1	0.4
70°-80°	2.3	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°	1080.2	96.8
0°-40°	1095.0	98.2
0°-60°	1108.5	99.4
0°-90°	1115.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1115.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15199	15199	15199	15199	15199	
5°	9889	9787	9761	9828	9838	722
15°	859	875	876	860	849	295
25°	101	114	129	114	102	53
35°	20	21	22	21	19	14
45°	10	10	10	10	10	8
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	3	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°	15199.1	15199.1	15199.1	15199.1	15199.1
2.5°	13710.2	13721.8	13726.3	13739.8	13790.0
5°	9888.9	9787.2	9760.8	9828.4	9838.0
7.5°	5857.8	5878.4	5953.7	5970.4	5909.9
10°	3214.6	3241.0	3237.1	3260.3	3286.6
12.5°	1644.0	1623.4	1616.9	1643.3	1606.6
15°	859.0	875.1	875.7	860.3	848.7
17.5°	462.0	480.6	511.5	486.4	447.8
20°	272.8	289.5	315.9	295.3	278.6
22.5°	168.6	182.1	200.8	184.7	171.2
25°	101.0	114.5	128.7	113.9	102.3
27.5°	59.8	71.4	80.4	70.8	59.2
30°	38.6	45.0	50.8	44.4	39.2
32.5°	27.0	29.6	32.2	29.6	27.0
35°	19.9	21.2	22.5	21.2	19.3
37.5°	15.4	16.7	17.4	16.1	14.8
40°	12.9	13.5	14.2	13.5	12.9
42.5°	10.9	11.6	11.6	11.6	10.9
45°	9.7	9.7	10.3	9.7	9.7
47.5°	8.4	8.4	9.0	8.4	8.4
50°	7.7	7.7	7.7	7.7	7.7
52.5°	7.1	7.1	7.1	7.1	7.1
55°	6.4	6.4	6.4	6.4	6.4
57.5°	5.8	5.8	5.8	5.8	5.8
60°	5.1	5.1	5.1	5.1	5.1
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.9	3.9	3.9	3.9	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.6	2.6	2.6	2.6	2.6
75°	1.9	1.9	1.9	1.9	2.6
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
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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