

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: P788843

Luminaire Tested: LER6D10D010-EC6DR150210IC9050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788843
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: LER6D10D010-EC6DR150210IC9050-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1111.7 lumens
Efficiency: N/A
Efficacy: 95.0 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

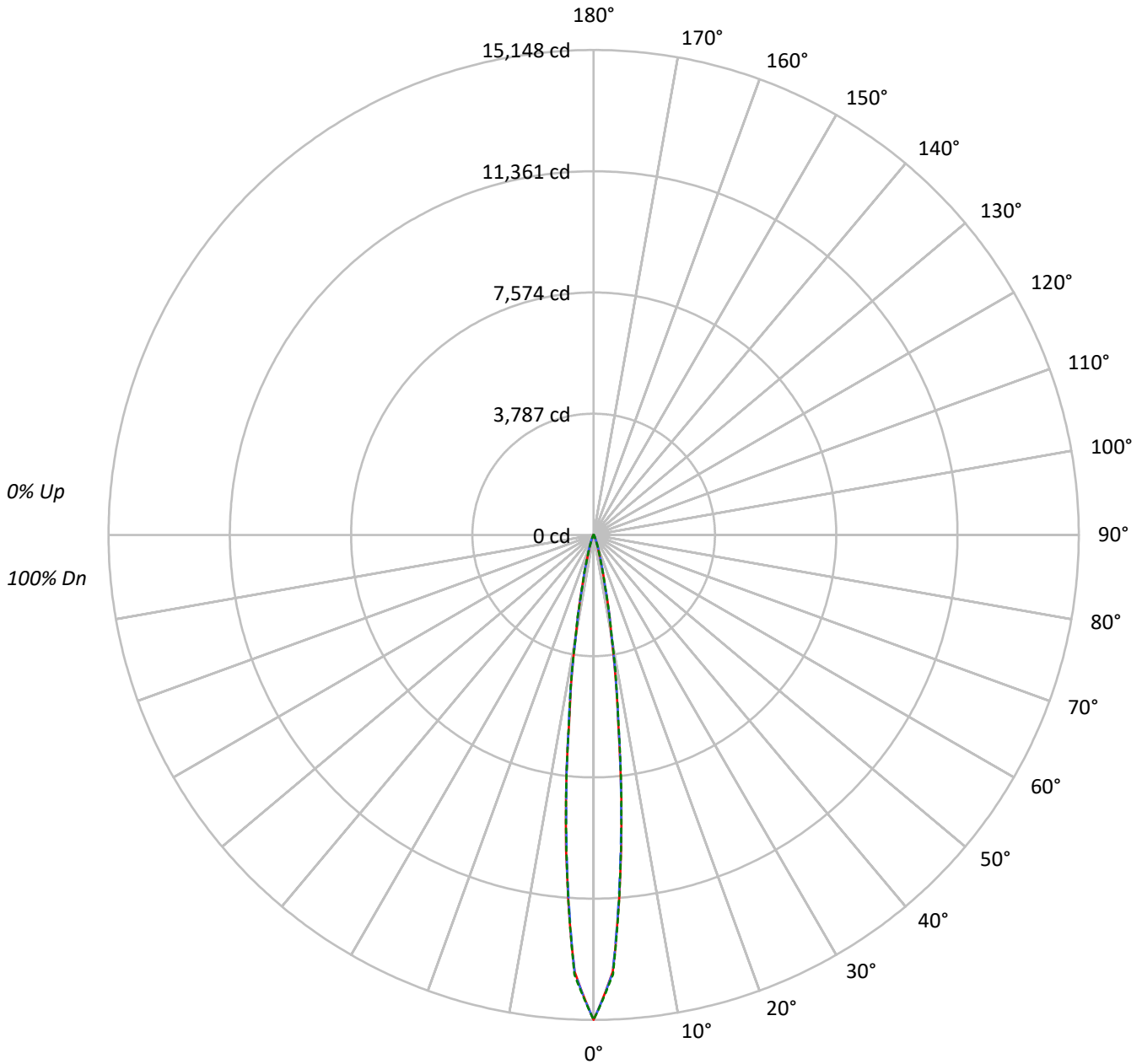
Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1704407	1704407	1704407
5°	1001594	988626	996441
10°	298930	301020	305629
15°	74358	75800	73464
20°	22248	25766	22722
25°	7845	9987	7946
30°	2883	3796	2928
35°	1445	1627	1394
40°	909	1001	909
45°	672	721	672
50°	535	535	535
55°	445	445	445
60°	358	358	358
65°	271	271	271
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°	721.1	64.9
10°-20°	296.6	26.7
20°-30°	58.9	5.3
30°-40°	14.7	1.3
40°-50°	7.7	0.7
50°-60°	5.7	0.5
60°-70°	4.0	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°	1076.6	96.8
0°-40°	1091.3	98.2
0°-60°	1104.7	99.4
0°-90°	1111.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15148	15148	15148	15148	15148	
5°	9855	9754	9728	9795	9805	720
15°	856	872	873	857	846	294
25°	101	114	128	114	102	53
35°	20	21	22	21	19	13
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°	15147.6	15147.6	15147.6	15147.6	15147.6
2.5°	13663.7	13675.3	13679.8	13693.2	13743.3
5°	9855.4	9754.0	9727.8	9795.1	9804.7
7.5°	5837.9	5858.5	5933.5	5950.2	5889.9
10°	3203.7	3230.0	3226.1	3249.2	3275.5
12.5°	1638.4	1617.9	1611.5	1637.8	1601.2
15°	856.1	872.1	872.7	857.4	845.8
17.5°	460.4	479.0	509.8	484.8	446.3
20°	271.9	288.6	314.9	294.3	277.7
22.5°	168.0	181.5	200.1	184.0	170.6
25°	100.7	114.1	128.2	113.5	102.0
27.5°	59.6	71.2	80.2	70.5	59.0
30°	38.5	44.9	50.7	44.2	39.1
32.5°	26.9	29.5	32.1	29.5	26.9
35°	19.9	21.2	22.4	21.2	19.2
37.5°	15.4	16.7	17.3	16.0	14.7
40°	12.8	13.5	14.1	13.5	12.8
42.5°	10.9	11.5	11.5	11.5	10.9
45°	9.6	9.6	10.3	9.6	9.6
47.5°	8.3	8.3	9.0	8.3	8.3
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°	3.8	3.8	3.8	3.8	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
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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