

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: P788811

Luminaire Tested: LER6D10D010-EC6DR150210IC9027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P788811
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-EC6DR150210IC9027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1004.4 lumens
Efficiency: N/A
Efficacy: 85.8 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

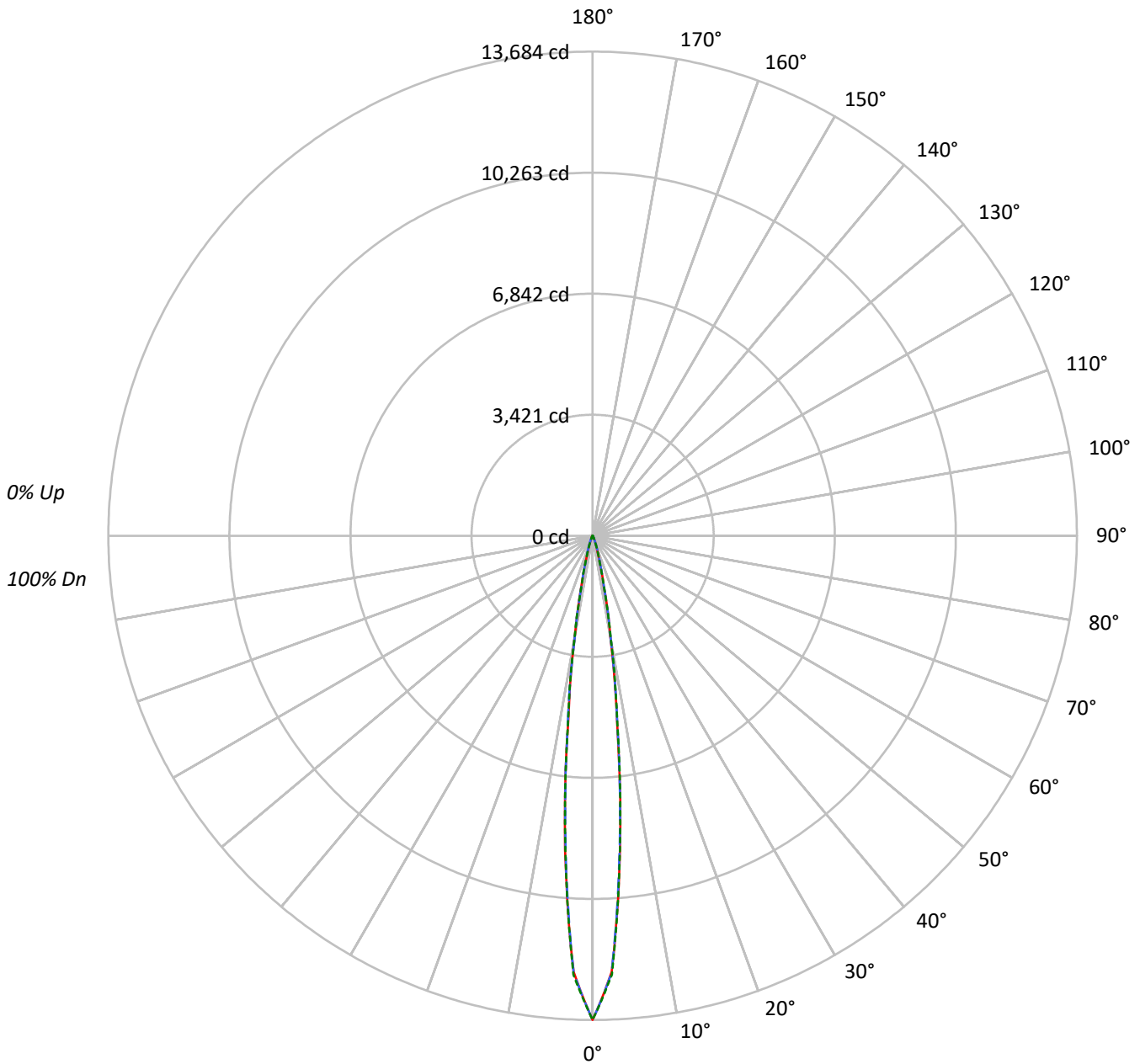
Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	87	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°	1539689	1539689	1539689
5°	904802	893084	900148
10°	270041	271936	276097
15°	67166	68478	66367
20°	20096	23270	20521
25°	7081	9029	7175
30°	2606	3430	2643
35°	1307	1474	1264
40°	824	902	824
45°	609	651	609
50°	487	487	487
55°	404	404	404
60°	323	323	323
65°	250	250	250
70°	212	212	212
75°	128	128	174
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.4	64.9
10°-20°	267.9	26.7
20°-30°	53.2	5.3
30°-40°	13.3	1.3
40°-50°	7.0	0.7
50°-60°	5.2	0.5
60°-70°	3.7	0.4
70°-80°	2.1	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°	972.5	96.8
0°-40°	985.8	98.2
0°-60°	998.0	99.4
0°-90°	1004.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1004.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13684	13684	13684	13684	13684	
5°	8903	8811	8788	8848	8857	650
15°	773	788	788	774	764	265
25°	91	103	116	102	92	48
35°	18	19	20	19	17	12
45°	9	9	9	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°	13683.7	13683.7	13683.7	13683.7	13683.7
2.5°	12343.3	12353.7	12357.8	12369.9	12415.1
5°	8903.0	8811.4	8787.7	8848.5	8857.2
7.5°	5273.8	5292.3	5360.1	5375.1	5320.7
10°	2894.1	2917.8	2914.4	2935.2	2959.0
12.5°	1480.1	1461.5	1455.7	1479.5	1446.5
15°	773.3	787.8	788.4	774.5	764.1
17.5°	415.9	432.7	460.5	437.9	403.2
20°	245.6	260.7	284.4	265.9	250.8
22.5°	151.8	163.9	180.7	166.3	154.1
25°	90.9	103.1	115.9	102.5	92.1
27.5°	53.9	64.3	72.4	63.7	53.3
30°	34.8	40.5	45.8	40.0	35.3
32.5°	24.3	26.6	29.0	26.6	24.3
35°	18.0	19.1	20.3	19.1	17.4
37.5°	13.9	15.1	15.6	14.5	13.3
40°	11.6	12.2	12.7	12.2	11.6
42.5°	9.8	10.4	10.4	10.4	9.8
45°	8.7	8.7	9.3	8.7	8.7
47.5°	7.5	7.5	8.1	7.5	7.5
50°	7.0	7.0	7.0	7.0	7.0
52.5°	6.4	6.4	6.4	6.4	6.4
55°	5.8	5.8	5.8	5.8	5.8
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.6	4.6	4.6	4.6	4.6
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
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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