

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: P793251

Luminaire Tested: LER6D50D010-EC6DR3040509024-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D50D010-EC6DR3040509024-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4756.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

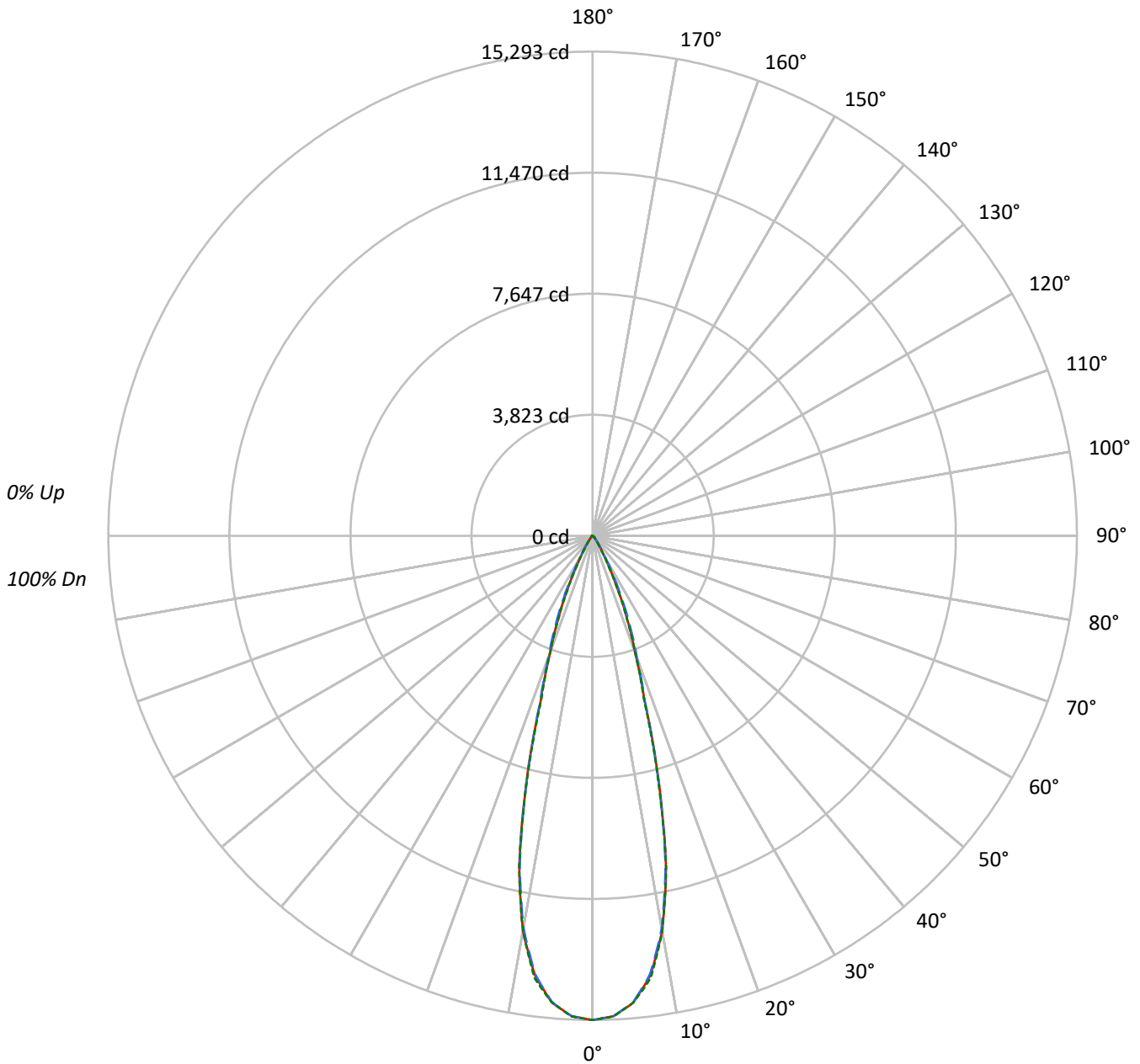


Downlight

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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1170563	1170563	1170563
5°	1136962	1135633	1137016
10°	984781	977833	984548
15°	642523	639068	635858
20°	319494	331484	319070
25°	160940	181488	157646
30°	64441	70213	56142
35°	29892	28621	23996
40°	12900	14329	12150
45°	9104	11301	9179
50°	3132	8228	3310
55°	1802	3403	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1344.8	28.3
10°-20°	2165.8	45.5
20°-30°	935.9	19.7
30°-40°	213.3	4.5
40°-50°	73.2	1.5
50°-60°	17.9	0.4
60°-70°	4.6	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	4446.4	93.5
0°-40°	4659.7	98.0
0°-60°	4750.9	99.9
0°-90°	4756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15293	15293	15293	15293	15293	
5°	14797	14783	14780	14811	14798	1346
15°	8108	8011	8065	8038	8024	2171
25°	1906	1978	2149	1927	1867	912
35°	320	327	306	304	257	217
45°	84	104	104	104	85	60
55°	14	14	26	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15292.8	15292.8	15292.8	15292.8	15292.8
2.5°	15191.4	15180.9	15186.9	15194.5	15197.5
5°	14797.3	14783.0	14780.0	14810.8	14798.0
7.5°	14002.1	13981.9	13951.1	14020.9	14086.2
10°	12670.2	12647.7	12580.8	12613.9	12667.2
12.5°	10703.8	10630.9	10629.4	10734.5	10720.3
15°	8108.2	8010.6	8064.6	8038.3	8024.1
17.5°	5452.5	5415.0	5487.0	5465.3	5371.4
20°	3922.3	3932.1	4069.5	4000.4	3917.1
22.5°	2862.1	2897.4	3060.4	2882.4	2817.1
25°	1905.6	1977.7	2148.9	1927.4	1866.6
27.5°	1172.0	1205.1	1378.5	1157.0	1124.0
30°	729.1	712.5	794.4	681.7	635.2
32.5°	478.3	457.3	483.5	434.0	396.4
35°	319.9	326.6	306.3	304.1	256.8
37.5°	199.7	229.8	202.7	216.2	165.2
40°	129.1	166.7	143.4	158.4	121.6
42.5°	105.9	128.4	117.9	125.4	108.1
45°	84.1	104.4	104.4	104.4	84.8
47.5°	46.6	69.8	89.3	71.3	49.6
50°	26.3	35.3	69.1	36.8	27.8
52.5°	18.0	20.3	47.3	21.0	18.8
55°	13.5	14.3	25.5	15.0	14.3
57.5°	10.5	11.3	13.5	11.3	10.5
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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