

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: P793258

Luminaire Tested: LER6D50D010-EC6DR3040509027-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793258  
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-EC6DR3040509027-6LB DP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4869.6 lumens  
Efficiency: N/A  
Efficacy: 103.6 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

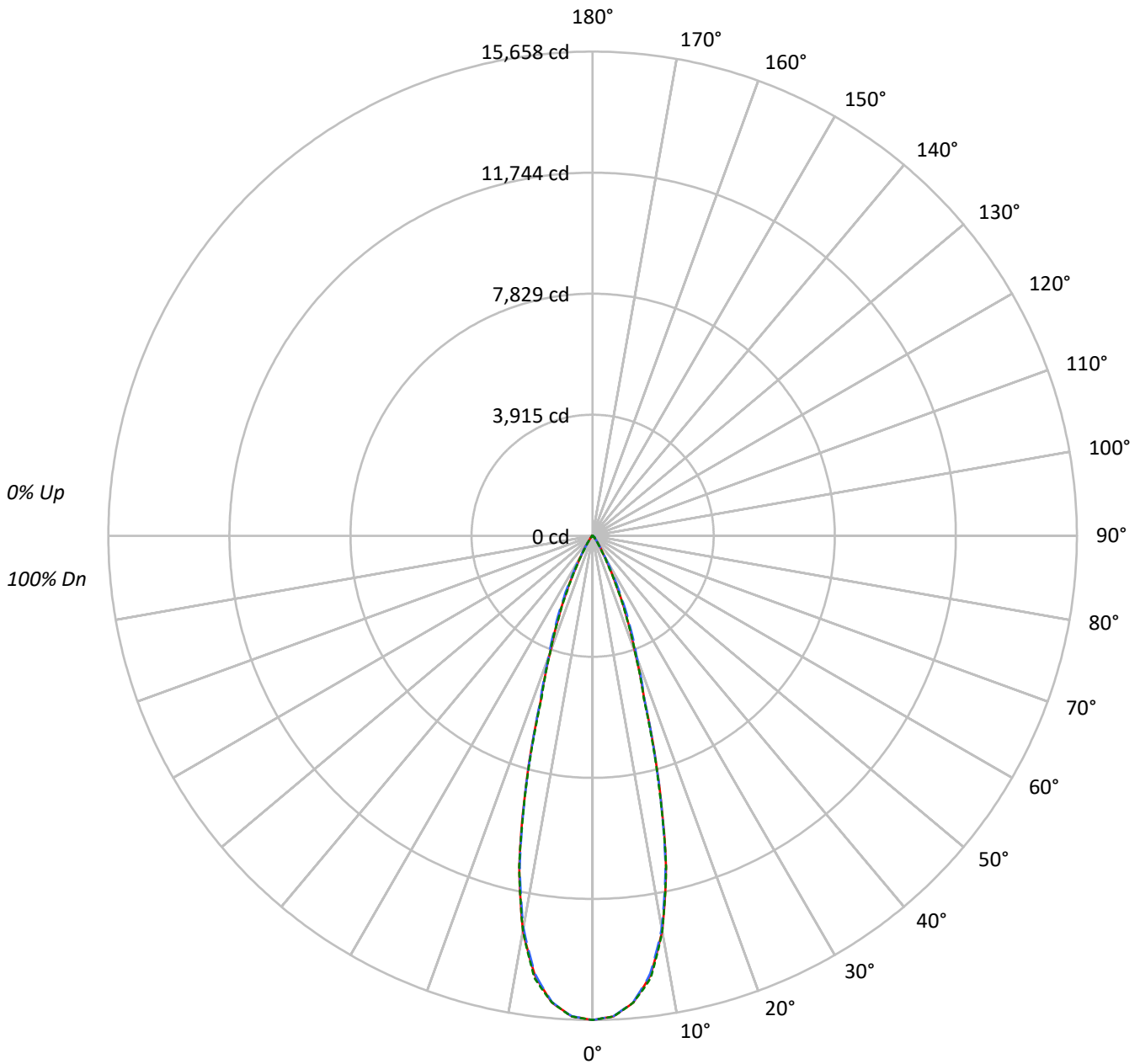
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P793258  
CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P793258

CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBDP1MW

**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	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°	1198532	1198532	1198532
5°	1164124	1162764	1164177
10°	1008308	1001197	1008067
15°	657872	654338	651049
20°	327126	339402	326687
25°	164783	185821	161404
30°	65979	71892	57485
35°	30602	29313	24566
40°	13209	14668	12440
45°	9320	11572	9407
50°	3203	8419	3382
55°	1842	3483	1948
60°	1301	1531	1301
65°	833	833	833
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: 11572 cd/sqm



TEST NUMBER: P793258

CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1376.9	28.3
10°-20°	2217.5	45.5
20°-30°	958.2	19.7
30°-40°	218.4	4.5
40°-50°	75.0	1.5
50°-60°	18.3	0.4
60°-70°	4.8	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°	4552.7	93.5
0°-40°	4771.1	98.0
0°-60°	4864.4	99.9
0°-90°	4869.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4869.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15658	15658	15658	15658	15658	
5°	15151	15136	15133	15165	15152	1378
15°	8302	8202	8257	8230	8216	2223
25°	1951	2025	2200	1973	1911	934
35°	328	334	314	311	263	222
45°	86	107	107	107	87	61
55°	14	15	26	15	15	13
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P793258

CATALOG NUMBER: LER6D50D010-EC6DR3040509027-6LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15658.2	15658.2	15658.2	15658.2	15658.2
2.5°	15554.4	15543.6	15549.8	15557.5	15560.5
5°	15150.8	15136.2	15133.1	15164.6	15151.5
7.5°	14336.7	14315.9	14284.4	14355.9	14422.8
10°	12972.9	12949.8	12881.4	12915.2	12969.8
12.5°	10959.5	10884.9	10883.4	10991.0	10976.4
15°	8301.9	8201.9	8257.3	8230.4	8215.8
17.5°	5582.8	5544.3	5618.1	5595.8	5499.7
20°	4016.0	4026.0	4166.7	4096.0	4010.6
22.5°	2930.5	2966.7	3133.5	2951.3	2884.4
25°	1951.1	2024.9	2200.2	1973.4	1911.1
27.5°	1200.0	1233.9	1411.4	1184.7	1150.8
30°	746.5	729.6	813.4	698.0	650.4
32.5°	489.7	468.2	495.1	444.3	405.9
35°	327.5	334.4	313.7	311.3	262.9
37.5°	204.5	235.2	207.6	221.4	169.1
40°	132.2	170.7	146.8	162.2	124.5
42.5°	108.4	131.5	120.7	128.4	110.7
45°	86.1	106.9	106.9	106.9	86.9
47.5°	47.7	71.5	91.5	73.0	50.7
50°	26.9	36.1	70.7	37.7	28.4
52.5°	18.5	20.8	48.4	21.5	19.2
55°	13.8	14.6	26.1	15.4	14.6
57.5°	10.8	11.5	13.8	11.5	10.8
60°	8.5	8.5	10.0	9.2	8.5
62.5°	6.2	6.2	6.9	6.2	6.2
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)