

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



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: P793250

Luminaire Tested: LER6D50D010-EC6DR3040509024-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793250  
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-EC6DR3040509024-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4298.8 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

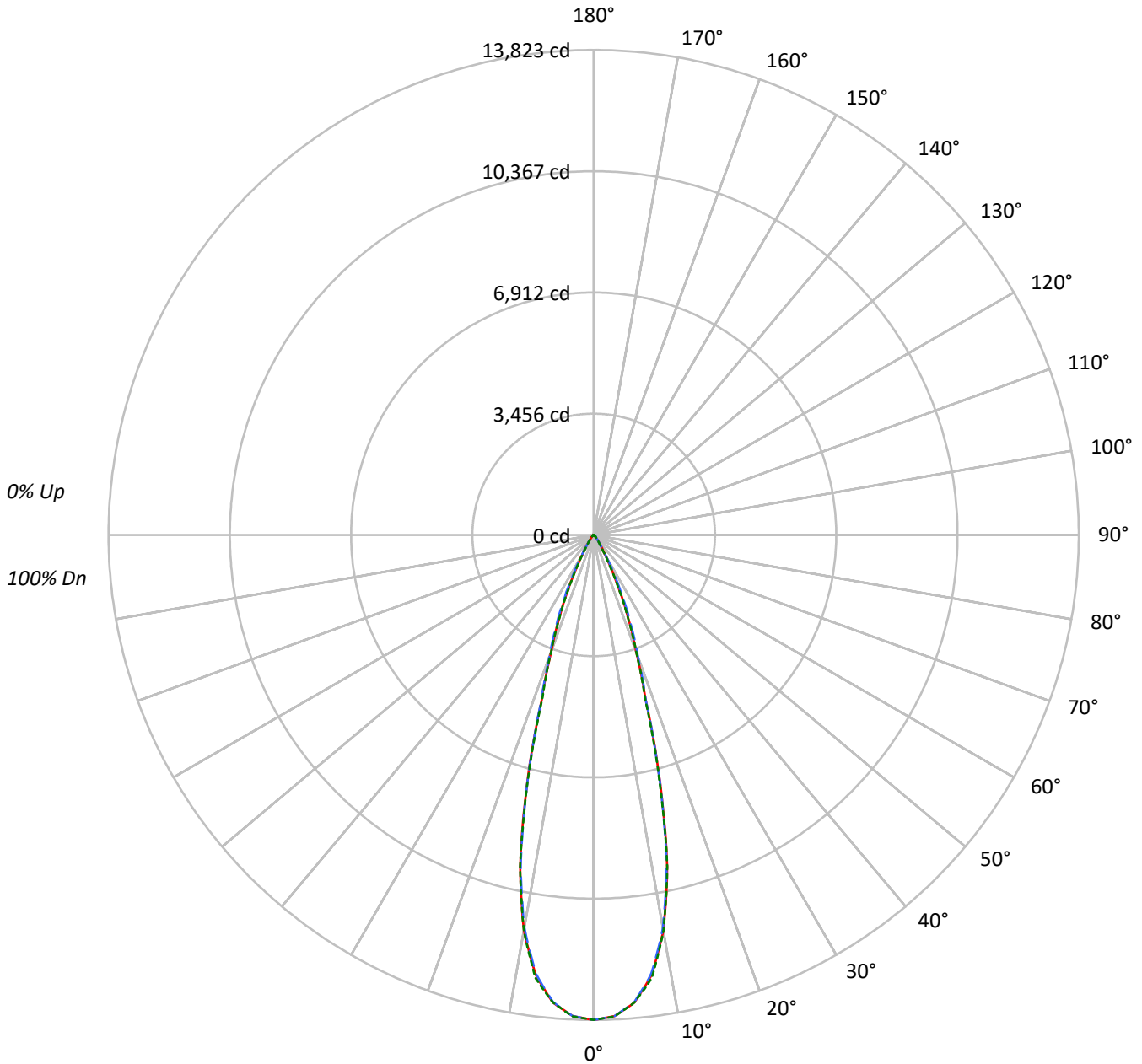
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P793250  
CATALOG NUMBER: LER6D50D010-EC6DR3040509024-6LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P793250

CATALOG NUMBER: LER6D50D010-EC6DR3040509024-6LBDP1MW

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1058044	1058044	1058044
5°	1027671	1026472	1027717
10°	890113	883841	889903
15°	580760	577638	574730
20°	288785	299619	288394
25°	145468	164039	142486
30°	58246	63460	50742
35°	27014	25874	21688
40°	11661	12950	10981
45°	8227	10208	8303
50°	2834	7431	2989
55°	1628	3083	1721
60°	1148	1347	1148
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 10208 cd/sqm



TEST NUMBER: P793250

CATALOG NUMBER: LER6D50D010-EC6DR3040509024-6LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1215.5	28.3
10°-20°	1957.6	45.5
20°-30°	845.9	19.7
30°-40°	192.8	4.5
40°-50°	66.2	1.5
50°-60°	16.2	0.4
60°-70°	4.2	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°	4019.0	93.5
0°-40°	4211.8	98.0
0°-60°	4294.2	99.9
0°-90°	4298.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13823	13823	13823	13823	13823	
5°	13375	13362	13359	13387	13376	1217
15°	7329	7240	7289	7266	7253	1962
25°	1722	1788	1942	1742	1687	824
35°	289	295	277	275	232	196
45°	76	94	94	94	77	54
55°	12	13	23	14	13	12
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



TEST NUMBER: P793250

CATALOG NUMBER: LER6D50D010-EC6DR3040509024-6LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13822.8	13822.8	13822.8	13822.8	13822.8
2.5°	13731.2	13721.7	13727.1	13733.9	13736.6
5°	13374.9	13362.0	13359.3	13387.1	13375.5
7.5°	12656.2	12637.8	12610.0	12673.1	12732.2
10°	11452.2	11431.9	11371.5	11401.3	11449.5
12.5°	9674.9	9609.0	9607.7	9702.7	9689.8
15°	7328.8	7240.5	7289.4	7265.6	7252.7
17.5°	4928.4	4894.4	4959.6	4939.9	4855.1
20°	3545.3	3554.1	3678.3	3615.9	3540.5
22.5°	2587.0	2618.9	2766.2	2605.3	2546.3
25°	1722.4	1787.6	1942.3	1742.1	1687.1
27.5°	1059.4	1089.2	1246.0	1045.8	1015.9
30°	659.0	644.0	718.0	616.2	574.1
32.5°	432.3	413.3	437.1	392.3	358.3
35°	289.1	295.2	276.9	274.9	232.1
37.5°	180.5	207.7	183.2	195.5	149.3
40°	116.7	150.7	129.6	143.2	109.9
42.5°	95.7	116.0	106.5	113.3	97.7
45°	76.0	94.3	94.3	94.3	76.7
47.5°	42.1	63.1	80.8	64.5	44.8
50°	23.8	31.9	62.4	33.3	25.1
52.5°	16.3	18.3	42.8	19.0	17.0
55°	12.2	12.9	23.1	13.6	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.5	7.5	8.8	8.1	7.5
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)