

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: P767162

Luminaire Tested: LD6D50D010-EU6DR3040509027-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P767162  
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: LD6D50D010-EU6DR3040509027-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

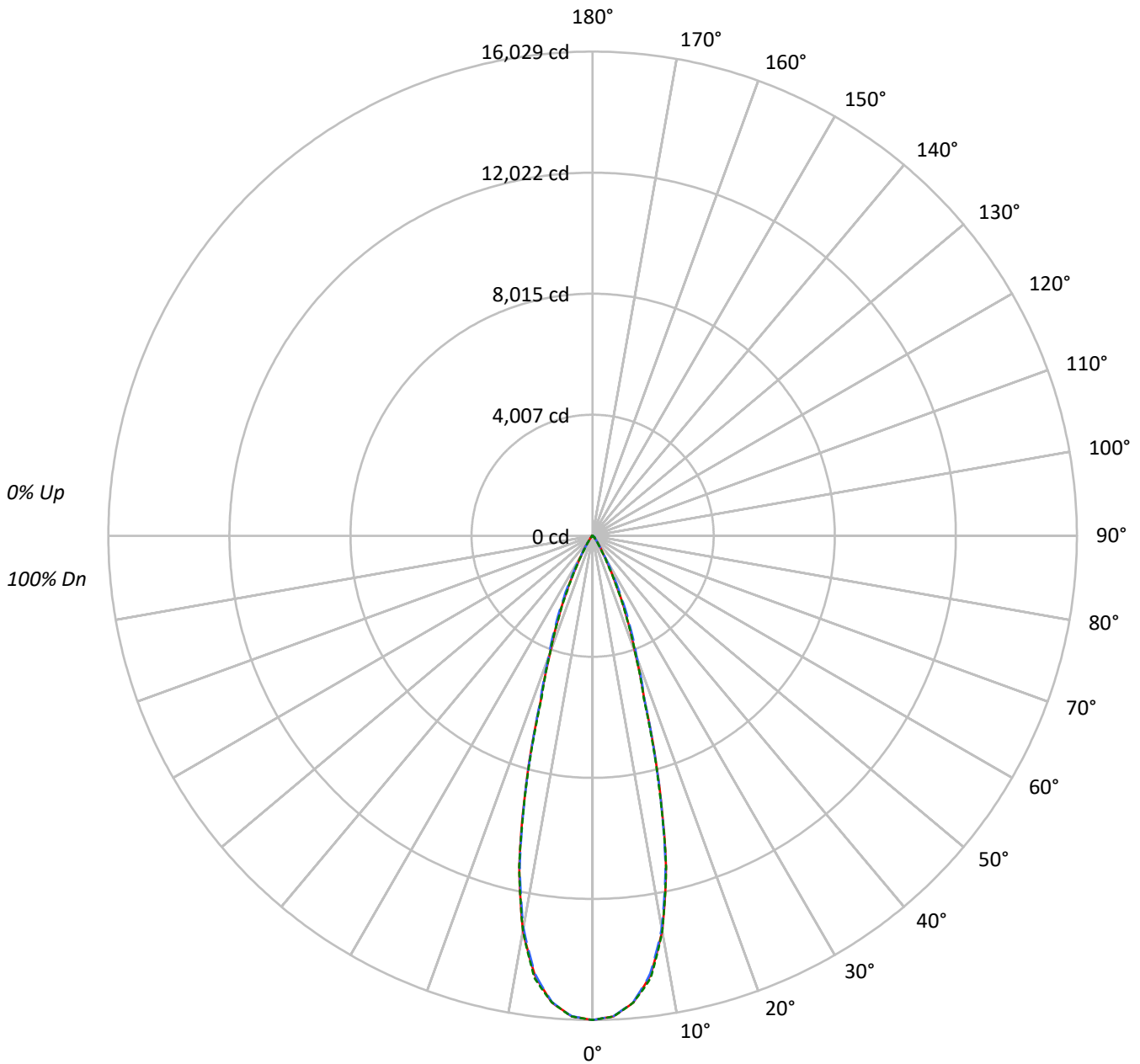
Lumens per Lamp: N/A  
Luminaire Lumens: 4985.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P767162  
CATALOG NUMBER: LD6D50D010-EU6DR3040509027-6LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P767162

CATALOG NUMBER: LD6D50D010-EU6DR3040509027-6LBCSSQMB

**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°	1226922	1226922	1226922
5°	1191700	1190309	1191754
10°	1032193	1024910	1031944
15°	673451	669838	666470
20°	334873	347441	334425
25°	168685	190221	165230
30°	67544	73589	58847
35°	31331	30004	25145
40°	13529	15018	12740
45°	9537	11842	9623
50°	3275	8621	3465
55°	1895	3576	2002
60°	1332	1561	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11842 cd/sqm



TEST NUMBER: P767162

CATALOG NUMBER: LD6D50D010-EU6DR3040509027-6LBCSSQMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1409.5	28.3
10°-20°	2270.0	45.5
20°-30°	980.9	19.7
30°-40°	223.6	4.5
40°-50°	76.8	1.5
50°-60°	18.8	0.4
60°-70°	4.9	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°	4660.5	93.5
0°-40°	4884.1	98.0
0°-60°	4979.6	99.9
0°-90°	4985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16029	16029	16029	16029	16029	
5°	15510	15495	15492	15524	15510	1411
15°	8498	8396	8453	8425	8410	2276
25°	1997	2073	2252	2020	1956	956
35°	335	342	321	319	269	227
45°	88	109	109	109	89	63
55°	14	15	27	16	15	14
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: P767162

CATALOG NUMBER: LD6D50D010-EU6DR3040509027-6LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16029.1	16029.1	16029.1	16029.1	16029.1
2.5°	15922.8	15911.8	15918.1	15926.0	15929.1
5°	15509.7	15494.7	15491.6	15523.8	15510.4
7.5°	14676.2	14655.0	14622.7	14695.9	14764.4
10°	13280.2	13256.6	13186.5	13221.1	13277.0
12.5°	11219.1	11142.7	11141.2	11251.3	11236.4
15°	8498.5	8396.2	8452.9	8425.3	8410.4
17.5°	5715.0	5675.6	5751.2	5728.4	5630.0
20°	4111.1	4121.4	4265.4	4193.0	4105.6
22.5°	2999.9	3036.9	3207.7	3021.2	2952.7
25°	1997.3	2072.9	2252.3	2020.2	1956.4
27.5°	1228.5	1263.1	1444.9	1212.7	1178.1
30°	764.2	746.8	832.6	714.6	665.8
32.5°	501.3	479.3	506.8	454.9	415.5
35°	335.3	342.3	321.1	318.7	269.1
37.5°	209.3	240.8	212.5	226.6	173.1
40°	135.4	174.7	150.3	166.1	127.5
42.5°	111.0	134.6	123.6	131.4	113.3
45°	88.1	109.4	109.4	109.4	88.9
47.5°	48.8	73.2	93.6	74.8	51.9
50°	27.5	37.0	72.4	38.6	29.1
52.5°	18.9	21.2	49.6	22.0	19.7
55°	14.2	15.0	26.8	15.7	15.0
57.5°	11.0	11.8	14.2	11.8	11.0
60°	8.7	8.7	10.2	9.4	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.1	3.1	3.1	3.1
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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)