

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: P771117

Luminaire Tested: LD6D75BD010-EU6DR3070959050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771117  
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: LD6D75BD010-EU6DR3070959050-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7145.5 lumens  
Efficiency: N/A  
Efficacy: 98.7 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

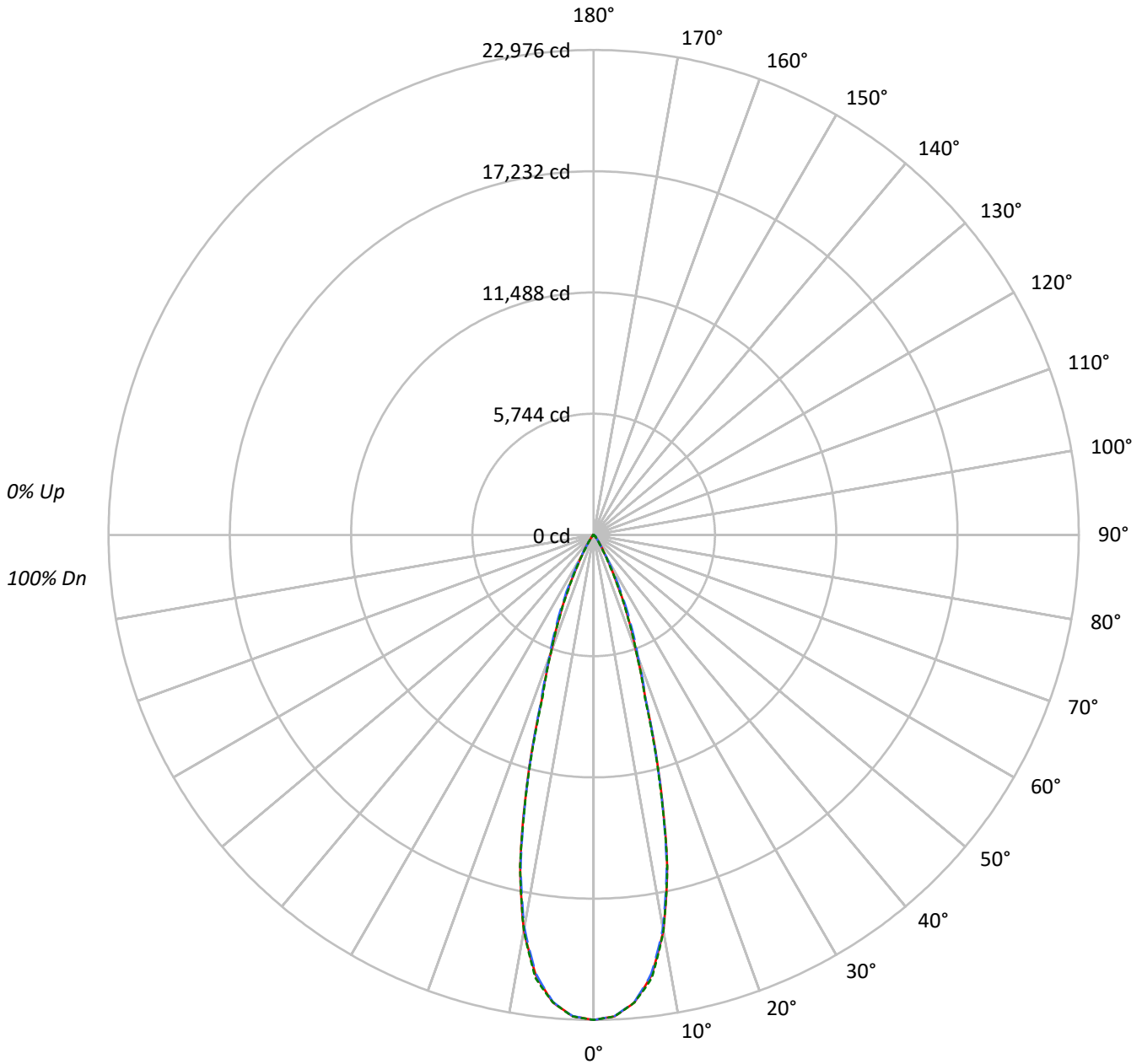
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P771117  
CATALOG NUMBER: LD6D75BD010-EU6DR3070959050-6LBDP1B

### Luminous Intensity Polar Plot





TEST NUMBER: P771117

CATALOG NUMBER: LD6D75BD010-EU6DR3070959050-6LBDP1B

**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°	1758669	1758669	1758669
5°	1708182	1706192	1708267
10°	1479542	1469112	1479193
15°	965329	960147	955321
20°	480011	498021	479367
25°	241798	272667	236841
30°	96808	105487	84346
35°	44899	43002	36050
40°	19385	21533	18255
45°	13672	16973	13802
50°	4704	12361	4966
55°	2709	5124	2856
60°	1898	2250	1898
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16973 cd/sqm



TEST NUMBER: P771117

CATALOG NUMBER: LD6D75BD010-EU6DR3070959050-6LBDP1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2020.4	28.3
10°-20°	3253.9	45.5
20°-30°	1406.1	19.7
30°-40°	320.5	4.5
40°-50°	110.0	1.5
50°-60°	26.9	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6680.4	93.5
0°-40°	7000.8	98.0
0°-60°	7137.8	99.9
0°-90°	7145.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7145.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22976	22976	22976	22976	22976	
5°	22232	22210	22206	22252	22233	2022
15°	12182	12035	12116	12077	12056	3262
25°	2863	2971	3228	2896	2804	1370
35°	480	491	460	457	386	326
45°	126	157	157	157	128	90
55°	20	21	38	23	21	20
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P771117

CATALOG NUMBER: LD6D75BD010-EU6DR3070959050-6LBDP1B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22976.1	22976.1	22976.1	22976.1	22976.1
2.5°	22823.8	22808.0	22817.1	22828.3	22832.8
5°	22231.6	22210.2	22205.7	22251.9	22232.7
7.5°	21037.0	21006.5	20960.3	21065.2	21163.3
10°	19035.8	19002.0	18901.6	18951.2	19031.3
12.5°	16081.5	15972.1	15969.8	16127.7	16106.3
15°	12181.8	12035.2	12116.4	12076.9	12055.5
17.5°	8191.9	8135.5	8243.8	8211.1	8070.1
20°	5892.9	5907.6	6114.0	6010.2	5885.0
22.5°	4300.1	4353.1	4597.9	4330.6	4232.4
25°	2863.0	2971.3	3228.5	2895.7	2804.3
27.5°	1760.9	1810.5	2071.1	1738.3	1688.7
30°	1095.3	1070.5	1193.5	1024.3	954.3
32.5°	718.6	687.0	726.5	652.0	595.6
35°	480.5	490.7	460.2	456.9	385.8
37.5°	300.1	345.2	304.6	324.9	248.2
40°	194.0	250.4	215.5	238.0	182.7
42.5°	159.1	192.9	177.1	188.4	162.4
45°	126.3	156.8	156.8	156.8	127.5
47.5°	69.9	104.9	134.2	107.2	74.5
50°	39.5	53.0	103.8	55.3	41.7
52.5°	27.1	30.5	71.1	31.6	28.2
55°	20.3	21.4	38.4	22.6	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.7	13.5	12.4
62.5°	9.0	9.0	10.2	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)