

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: P766399

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P766399  
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: LD6D45BD010-EU6DR3040509030-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4788.6 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

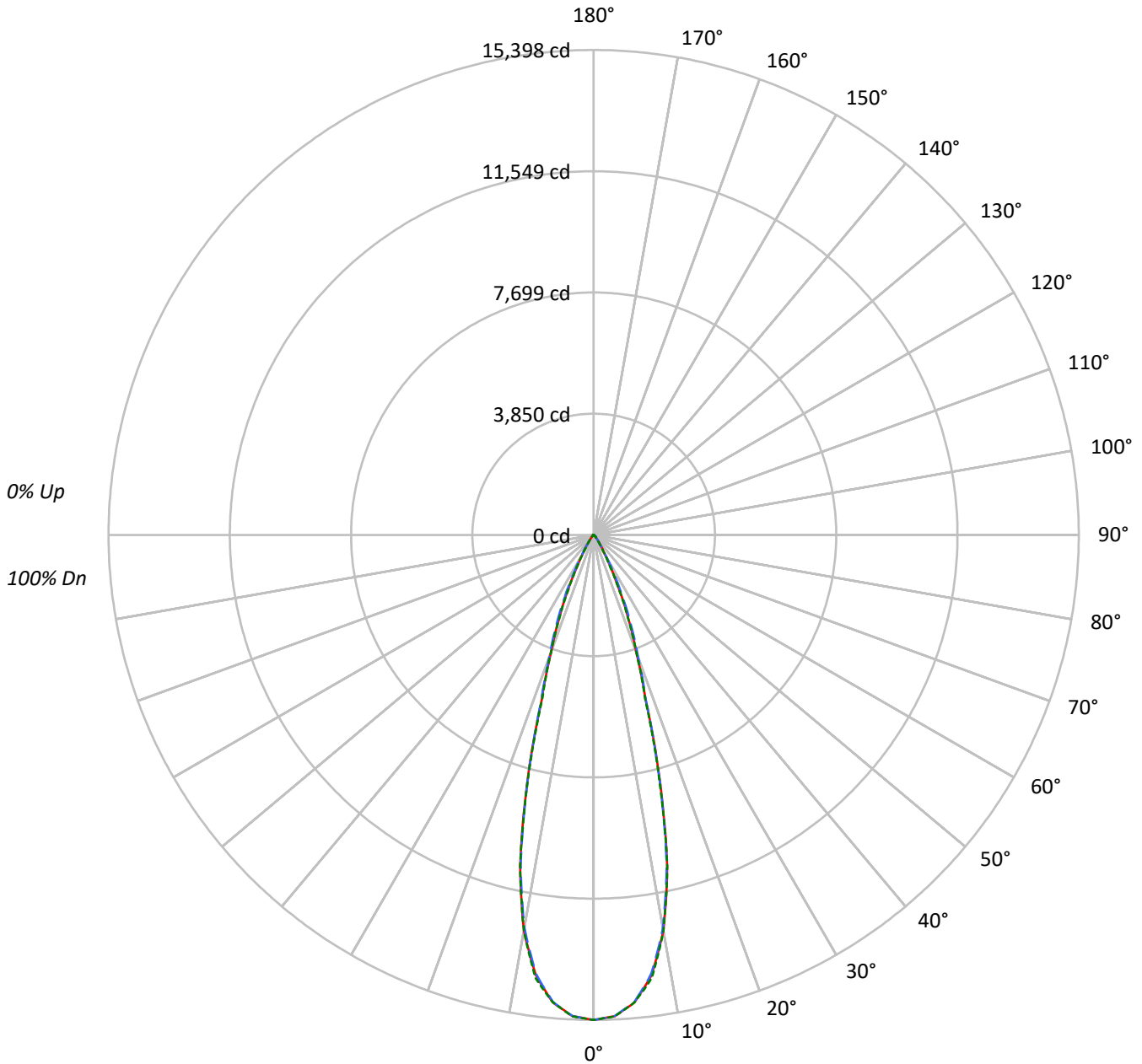
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P766399  
CATALOG NUMBER: LD6D45BD010-EU6DR3040509030-6LBDP1H

### Luminous Intensity Polar Plot





TEST NUMBER: P766399

CATALOG NUMBER: LD6D45BD010-EU6DR3040509030-6LBDP1H

**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°	1178600	1178600	1178600
5°	1144769	1143432	1144822
10°	991543	984548	991310
15°	646929	643458	640225
20°	321685	333757	321262
25°	162046	182730	158727
30°	64883	70690	56531
35°	30088	28818	24155
40°	12990	14428	12240
45°	9169	11377	9244
50°	3156	8288	3334
55°	1815	3430	1922
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: 11377 cd/sqm



TEST NUMBER: P766399

CATALOG NUMBER: LD6D45BD010-EU6DR3040509030-6LBDP1H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1354.0	28.3
10°-20°	2180.6	45.5
20°-30°	942.3	19.7
30°-40°	214.8	4.5
40°-50°	73.7	1.5
50°-60°	18.0	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°	4477.0	93.5
0°-40°	4691.7	98.0
0°-60°	4783.5	99.9
0°-90°	4788.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4788.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15398	15398	15398	15398	15398	
5°	14899	14884	14882	14912	14900	1355
15°	8164	8066	8120	8094	8079	2186
25°	1919	1991	2164	1941	1879	918
35°	322	329	308	306	258	218
45°	85	105	105	105	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



TEST NUMBER: P766399

CATALOG NUMBER: LD6D45BD010-EU6DR3040509030-6LBDP1H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15397.8	15397.8	15397.8	15397.8	15397.8
2.5°	15295.8	15285.2	15291.2	15298.8	15301.8
5°	14898.9	14884.5	14881.5	14912.5	14899.6
7.5°	14098.3	14077.9	14046.9	14117.2	14183.0
10°	12757.2	12734.5	12667.2	12700.5	12754.2
12.5°	10777.3	10703.9	10702.4	10808.3	10793.9
15°	8163.8	8065.6	8120.0	8093.5	8079.2
17.5°	5489.9	5452.1	5524.7	5502.8	5408.3
20°	3949.2	3959.1	4097.4	4027.9	3944.0
22.5°	2881.8	2917.3	3081.4	2902.2	2836.4
25°	1918.7	1991.3	2163.6	1940.6	1879.4
27.5°	1180.1	1213.4	1388.0	1165.0	1131.7
30°	734.1	717.4	799.8	686.4	639.6
32.5°	481.6	460.4	486.9	437.0	399.2
35°	322.0	328.9	308.4	306.2	258.5
37.5°	201.1	231.3	204.1	217.7	166.3
40°	130.0	167.8	144.4	159.5	122.5
42.5°	106.6	129.3	118.7	126.2	108.9
45°	84.7	105.1	105.1	105.1	85.4
47.5°	46.9	70.3	90.0	71.8	49.9
50°	26.5	35.5	69.6	37.0	28.0
52.5°	18.1	20.4	47.6	21.2	18.9
55°	13.6	14.4	25.7	15.1	14.4
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	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



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)