

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: P771861

Luminaire Tested: LD6D80BD010-EU6DR3070959030-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771861  
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: LD6D80BD010-EU6DR3070959030-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8419.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 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

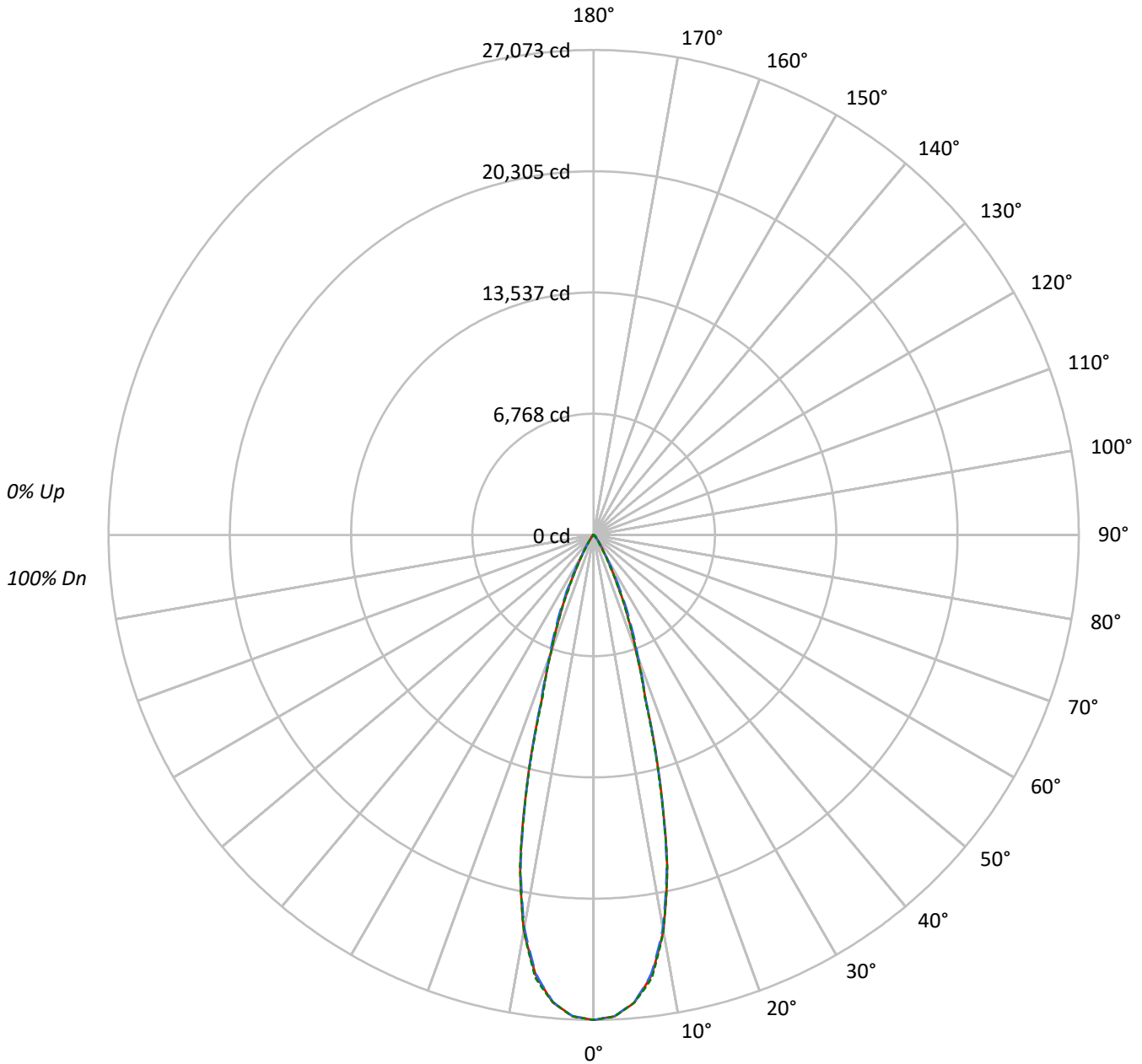
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P771861  
CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P771861

CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBDP1MW

**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	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°	2072282	2072282	2072282
5°	2012790	2010447	2012898
10°	1743385	1731089	1742973
15°	1137470	1131360	1125678
20°	565613	586832	564855
25°	284913	321289	279077
30°	114078	124295	99389
35°	52907	50674	42479
40°	22842	25370	21513
45°	16118	20004	16259
50°	5537	14564	5859
55°	3189	6032	3376
60°	2235	2648	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 20004 cd/sqm



TEST NUMBER: P771861

CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2380.7	28.3
10°-20°	3834.1	45.5
20°-30°	1656.8	19.7
30°-40°	377.6	4.5
40°-50°	129.7	1.5
50°-60°	31.7	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7871.6	93.5
0°-40°	8249.3	98.0
0°-60°	8410.6	99.9
0°-90°	8419.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8419.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27073	27073	27073	27073	27073	
5°	26196	26171	26166	26220	26197	2383
15°	14354	14181	14277	14230	14205	3844
25°	3374	3501	3804	3412	3304	1615
35°	566	578	542	538	455	384
45°	149	185	185	185	150	106
55°	24	25	45	27	25	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P771861

CATALOG NUMBER: LD6D80BD010-EU6DR3070959030-6LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27073.3	27073.3	27073.3	27073.3	27073.3
2.5°	26893.9	26875.3	26885.9	26899.2	26904.5
5°	26196.0	26170.8	26165.5	26220.0	26197.4
7.5°	24788.4	24752.5	24698.0	24821.6	24937.3
10°	22430.4	22390.5	22272.2	22330.7	22425.1
12.5°	18949.2	18820.3	18817.6	19003.7	18978.4
15°	14354.1	14181.3	14277.0	14230.5	14205.3
17.5°	9652.7	9586.3	9713.9	9675.3	9509.2
20°	6943.8	6961.1	7204.3	7082.0	6934.5
22.5°	5066.9	5129.4	5417.9	5102.8	4987.2
25°	3373.5	3501.1	3804.2	3412.1	3304.4
27.5°	2074.9	2133.4	2440.4	2048.3	1989.8
30°	1290.7	1261.4	1406.3	1206.9	1124.5
32.5°	846.7	809.5	856.0	768.3	701.8
35°	566.2	578.2	542.3	538.3	454.6
37.5°	353.6	406.7	358.9	382.8	292.4
40°	228.6	295.1	253.9	280.5	215.3
42.5°	187.4	227.3	208.7	222.0	191.4
45°	148.9	184.8	184.8	184.8	150.2
47.5°	82.4	123.6	158.2	126.3	87.7
50°	46.5	62.5	122.3	65.1	49.2
52.5°	31.9	35.9	83.7	37.2	33.2
55°	23.9	25.3	45.2	26.6	25.3
57.5°	18.6	19.9	23.9	19.9	18.6
60°	14.6	14.6	17.3	16.0	14.6
62.5°	10.6	10.6	12.0	10.6	10.6
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)