

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: P773459

Luminaire Tested: LD6D90BD010-EU6DR3070959050-6LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773459  
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: LD6D90BD010-EU6DR3070959050-6LBDP1LI  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11923.7 lumens  
Efficiency: N/A  
Efficacy: 120.6 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): 98.9  
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

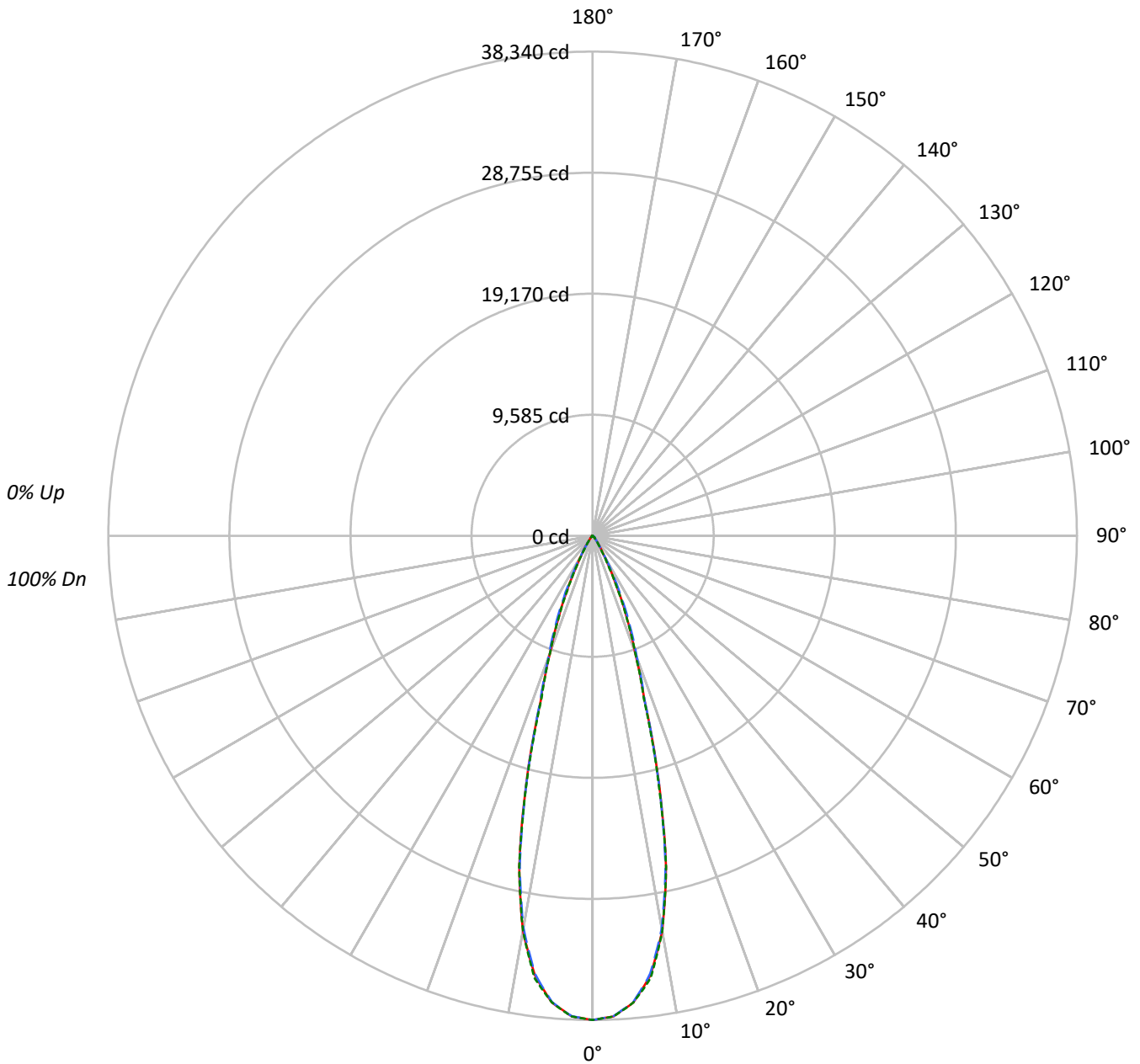


Downlight

TEST NUMBER: P773459

CATALOG NUMBER: LD6D90BD010-EU6DR3070959050-6LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P773459

CATALOG NUMBER: LD6D90BD010-EU6DR3070959050-6LBDP1LI

**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°	2934712	2934712	2934712
5°	2850469	2847142	2850615
10°	2468940	2451530	2468350
15°	1610855	1602210	1594151
20°	801004	831061	799928
25°	403490	455000	395222
30°	161550	176027	140753
35°	74931	71764	60158
40°	32354	35921	30466
45°	22819	28329	23025
50°	7847	20625	8288
55°	4524	8541	4777
60°	3169	3751	3169
65°	2047	2047	2047
70°	1253	850	1253
75°	0	562	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 28329 cd/sqm



TEST NUMBER: P773459

CATALOG NUMBER: LD6D90BD010-EU6DR3070959050-6LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3371.5	28.3
10°-20°	5429.8	45.5
20°-30°	2346.4	19.7
30°-40°	534.8	4.5
40°-50°	183.6	1.5
50°-60°	44.9	0.4
60°-70°	11.6	0.1
70°-80°	1.2	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°	11147.6	93.5
0°-40°	11682.4	98.0
0°-60°	11910.9	99.9
0°-90°	11923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11923.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	38340	38340	38340	38340	38340	
5°	37098	37062	37055	37132	37100	3374
15°	20328	20083	20219	20153	20117	5443
25°	4778	4958	5387	4832	4680	2287
35°	802	819	768	762	644	544
45°	211	262	262	262	213	150
55°	34	36	64	38	36	33
65°	11	11	11	11	11	11
75°	0	0	2	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P773459

CATALOG NUMBER: LD6D90BD010-EU6DR3070959050-6LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	38340.5	38340.5	38340.5	38340.5	38340.5
2.5°	38086.4	38060.1	38075.1	38094.0	38101.5
5°	37098.2	37062.4	37054.9	37132.1	37100.1
7.5°	35104.7	35053.9	34976.7	35151.8	35315.5
10°	31765.4	31708.9	31541.4	31624.2	31757.8
12.5°	26835.4	26652.8	26649.0	26912.6	26876.8
15°	20327.9	20083.2	20218.8	20152.9	20117.1
17.5°	13669.9	13575.8	13756.5	13701.9	13466.6
20°	9833.6	9858.1	10202.6	10029.4	9820.4
22.5°	7175.7	7264.1	7672.6	7226.5	7062.7
25°	4777.5	4958.2	5387.4	4832.1	4679.6
27.5°	2938.4	3021.2	3456.1	2900.8	2817.9
30°	1827.8	1786.4	1991.6	1709.2	1592.5
32.5°	1199.1	1146.4	1212.3	1088.0	993.9
35°	801.9	818.8	768.0	762.4	643.8
37.5°	500.7	576.0	508.2	542.1	414.1
40°	323.8	417.9	359.5	397.2	304.9
42.5°	265.4	321.9	295.5	314.4	271.1
45°	210.8	261.7	261.7	261.7	212.7
47.5°	116.7	175.1	224.0	178.8	124.2
50°	65.9	88.5	173.2	92.2	69.6
52.5°	45.2	50.8	118.6	52.7	47.1
55°	33.9	35.8	64.0	37.6	35.8
57.5°	26.4	28.2	33.9	28.2	26.4
60°	20.7	20.7	24.5	22.6	20.7
62.5°	15.1	15.1	16.9	15.1	15.1
65°	11.3	11.3	11.3	11.3	11.3
67.5°	5.6	7.5	7.5	7.5	7.5
70°	5.6	3.8	3.8	3.8	5.6
72.5°	3.8	1.9	1.9	1.9	1.9
75°	0.0	0.0	1.9	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)