

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: P773406

Luminaire Tested: LD6D90BD010-EU6DR3070959027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773406  
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-EU6DR3070959027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10346.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

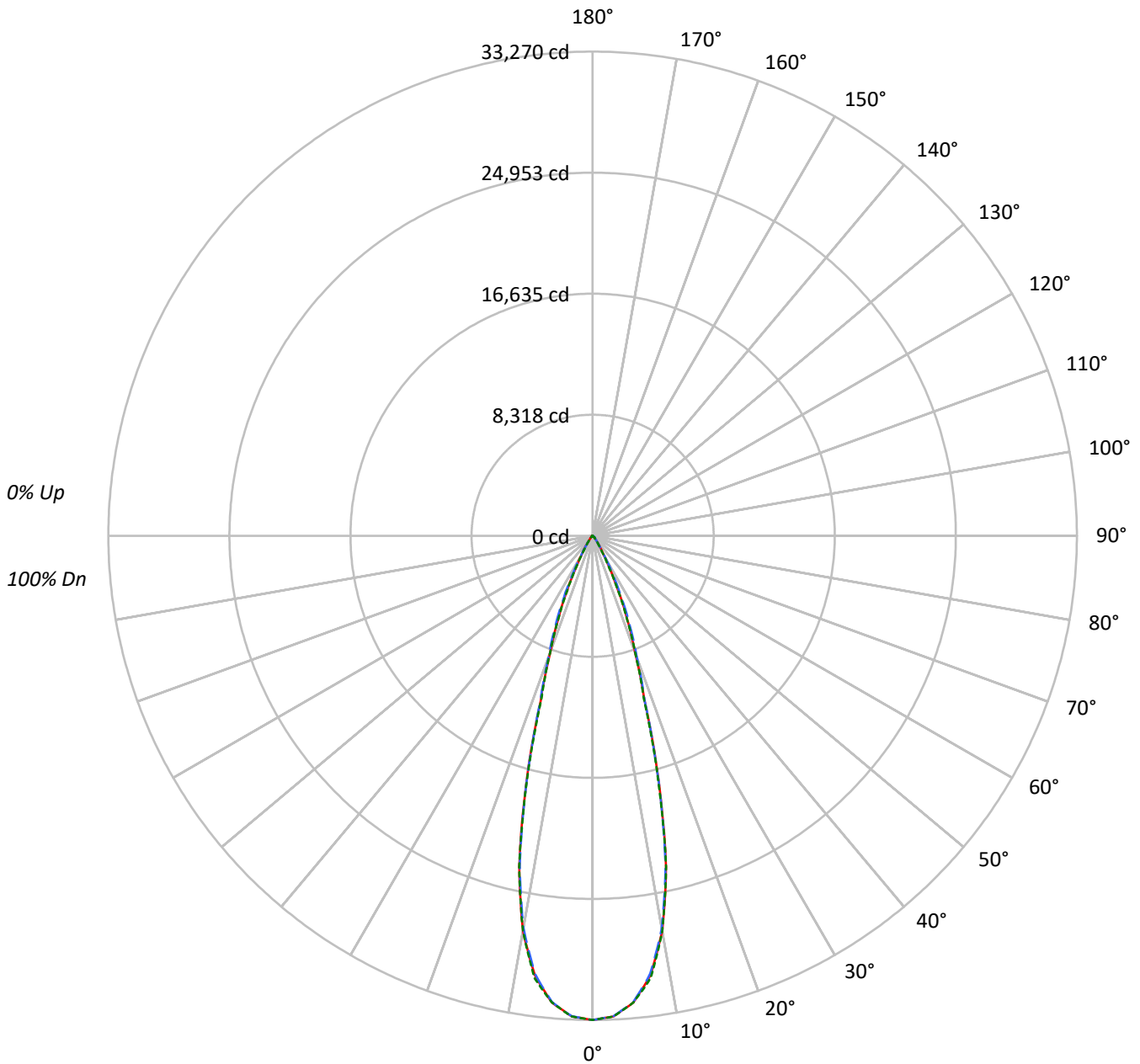
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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**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°	2546606	2546606	2546606
5°	2473497	2470608	2473620
10°	2142421	2127319	2141916
15°	1397825	1390320	1383331
20°	695070	721152	694142
25°	350130	394825	342960
30°	140187	152746	122139
35°	65017	62270	52197
40°	28078	31175	26439
45°	19799	24572	19983
50°	6811	17898	7192
55°	3923	7406	4137
60°	2756	3245	2756
65°	1775	1775	1775
70°	1097	739	1097
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 24572 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2925.6	28.3
10°-20°	4711.7	45.5
20°-30°	2036.1	19.7
30°-40°	464.0	4.5
40°-50°	159.3	1.5
50°-60°	38.9	0.4
60°-70°	10.1	0.1
70°-80°	1.1	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°	9673.4	93.5
0°-40°	10137.4	98.0
0°-60°	10335.7	99.9
0°-90°	10346.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10346.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33270	33270	33270	33270	33270	
5°	32192	32161	32154	32221	32194	2928
15°	17640	17427	17545	17488	17457	4723
25°	4146	4302	4675	4193	4061	1984
35°	696	710	666	662	559	472
45°	183	227	227	227	185	130
55°	29	31	56	33	31	29
65°	10	10	10	10	10	10
75°	0	0	2	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33270.1	33270.1	33270.1	33270.1	33270.1
2.5°	33049.5	33026.7	33039.7	33056.1	33062.6
5°	32192.0	32161.0	32154.4	32221.4	32193.6
7.5°	30462.2	30418.1	30351.1	30503.0	30645.1
10°	27564.4	27515.4	27370.1	27441.9	27557.9
12.5°	23286.4	23128.0	23124.7	23353.4	23322.4
15°	17639.6	17427.3	17544.9	17487.7	17456.7
17.5°	11862.1	11780.4	11937.2	11889.9	11685.7
20°	8533.1	8554.4	8853.3	8703.0	8521.7
22.5°	6226.7	6303.5	6657.9	6270.8	6128.7
25°	4145.7	4302.5	4674.9	4193.1	4060.8
27.5°	2549.8	2621.7	2999.0	2517.1	2445.3
30°	1586.1	1550.1	1728.2	1483.2	1381.9
32.5°	1040.5	994.8	1051.9	944.1	862.5
35°	695.8	710.5	666.4	661.5	558.6
37.5°	434.5	499.8	441.0	470.4	359.4
40°	281.0	362.6	312.0	344.7	264.6
42.5°	230.3	279.3	256.5	272.8	235.2
45°	182.9	227.0	227.0	227.0	184.6
47.5°	101.3	151.9	194.4	155.2	107.8
50°	57.2	76.8	150.3	80.0	60.4
52.5°	39.2	44.1	102.9	45.7	40.8
55°	29.4	31.0	55.5	32.7	31.0
57.5°	22.9	24.5	29.4	24.5	22.9
60°	18.0	18.0	21.2	19.6	18.0
62.5°	13.1	13.1	14.7	13.1	13.1
65°	9.8	9.8	9.8	9.8	9.8
67.5°	4.9	6.5	6.5	6.5	6.5
70°	4.9	3.3	3.3	3.3	4.9
72.5°	3.3	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)