

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: P773415

Luminaire Tested: LD6D90BD010-EU6DR3070959030-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773415  
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-EU6DR3070959030-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9734.1 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

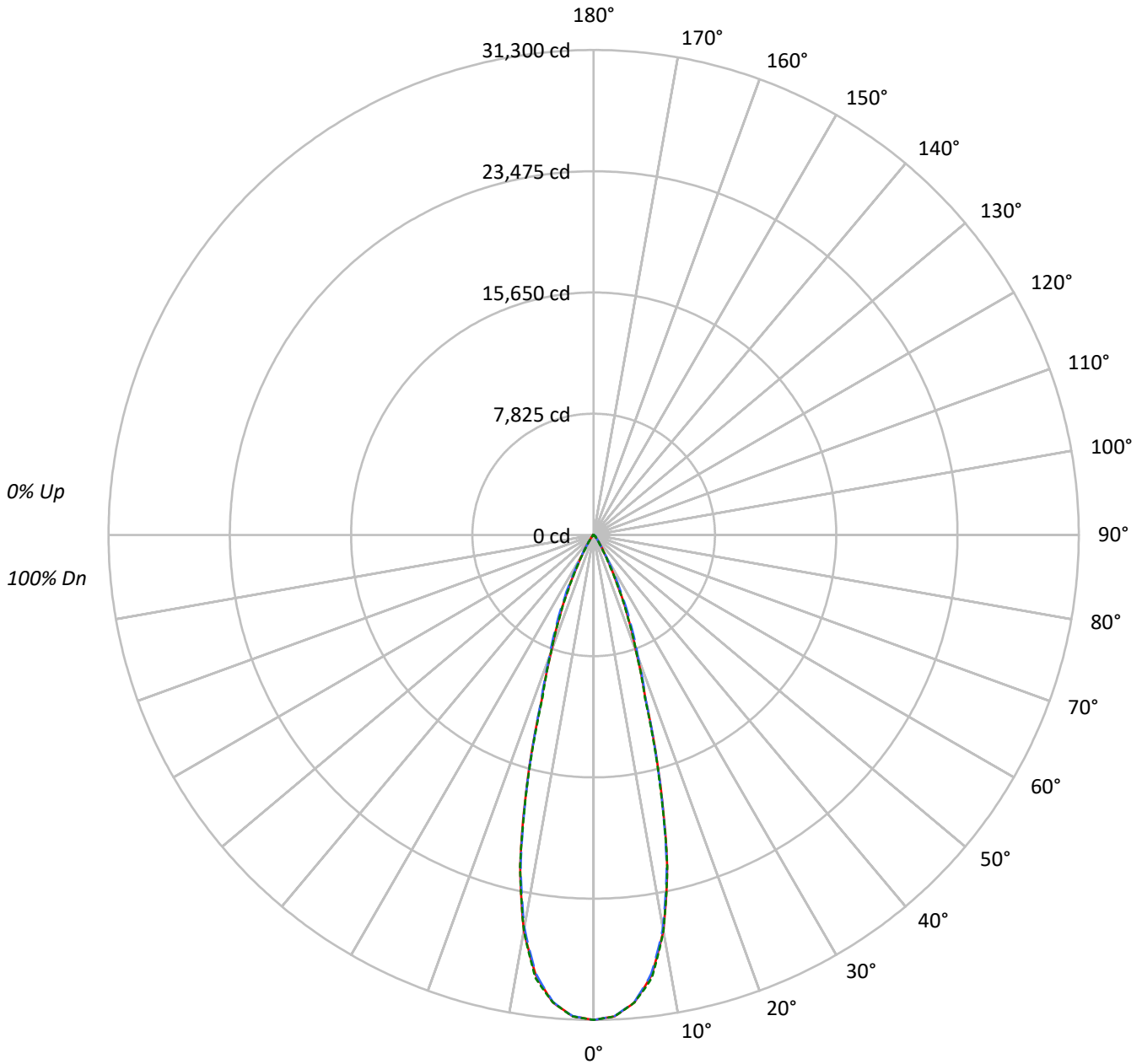
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	2395801	2395801	2395801
5°	2327025	2324305	2327141
10°	2015552	2001344	2015078
15°	1315047	1307986	1301409
20°	653911	678445	653039
25°	329396	371447	322648
30°	131888	143696	114909
35°	61167	58588	49113
40°	26409	29327	24870
45°	18630	23122	18792
50°	6407	16838	6776
55°	3697	6966	3897
60°	2587	3062	2587
65°	1666	1666	1666
70°	1029	694	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 23122 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2752.4	28.3
10°-20°	4432.7	45.5
20°-30°	1915.5	19.7
30°-40°	436.6	4.5
40°-50°	149.9	1.5
50°-60°	36.6	0.4
60°-70°	9.5	0.1
70°-80°	1.0	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°	9100.5	93.5
0°-40°	9537.1	98.0
0°-60°	9723.6	99.9
0°-90°	9734.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9734.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31300	31300	31300	31300	31300	
5°	30286	30256	30250	30313	30287	2755
15°	16595	16395	16506	16452	16423	4444
25°	3900	4048	4398	3945	3820	1867
35°	655	668	627	622	526	444
45°	172	214	214	214	174	122
55°	28	29	52	31	29	27
65°	9	9	9	9	9	9
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°	31299.9	31299.9	31299.9	31299.9	31299.9
2.5°	31092.4	31070.9	31083.2	31098.6	31104.7
5°	30285.7	30256.5	30250.3	30313.3	30287.2
7.5°	28658.3	28616.8	28553.8	28696.7	28830.4
10°	25932.1	25886.0	25749.3	25816.9	25926.0
12.5°	21907.5	21758.4	21755.3	21970.5	21941.3
15°	16595.0	16395.3	16505.9	16452.1	16422.9
17.5°	11159.7	11082.8	11230.3	11185.8	10993.7
20°	8027.8	8047.8	8329.0	8187.6	8017.1
22.5°	5858.0	5930.2	6263.7	5899.5	5765.8
25°	3900.2	4047.7	4398.1	3944.8	3820.3
27.5°	2398.8	2466.4	2821.4	2368.1	2300.5
30°	1492.2	1458.3	1625.8	1395.3	1300.1
32.5°	978.9	935.9	989.6	888.2	811.4
35°	654.6	668.5	627.0	622.4	525.6
37.5°	408.8	470.2	414.9	442.6	338.1
40°	264.3	341.2	293.5	324.2	248.9
42.5°	216.7	262.8	241.3	256.6	221.3
45°	172.1	213.6	213.6	213.6	173.6
47.5°	95.3	142.9	182.9	146.0	101.4
50°	53.8	72.2	141.4	75.3	56.9
52.5°	36.9	41.5	96.8	43.0	38.4
55°	27.7	29.2	52.2	30.7	29.2
57.5°	21.5	23.1	27.7	23.1	21.5
60°	16.9	16.9	20.0	18.4	16.9
62.5°	12.3	12.3	13.8	12.3	12.3
65°	9.2	9.2	9.2	9.2	9.2
67.5°	4.6	6.1	6.1	6.1	6.1
70°	4.6	3.1	3.1	3.1	4.6
72.5°	3.1	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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