

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: P773428

Luminaire Tested: LD6D90BD010-EU6DR3070959035-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773428  
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-EU6DR3070959035-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9836.7 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

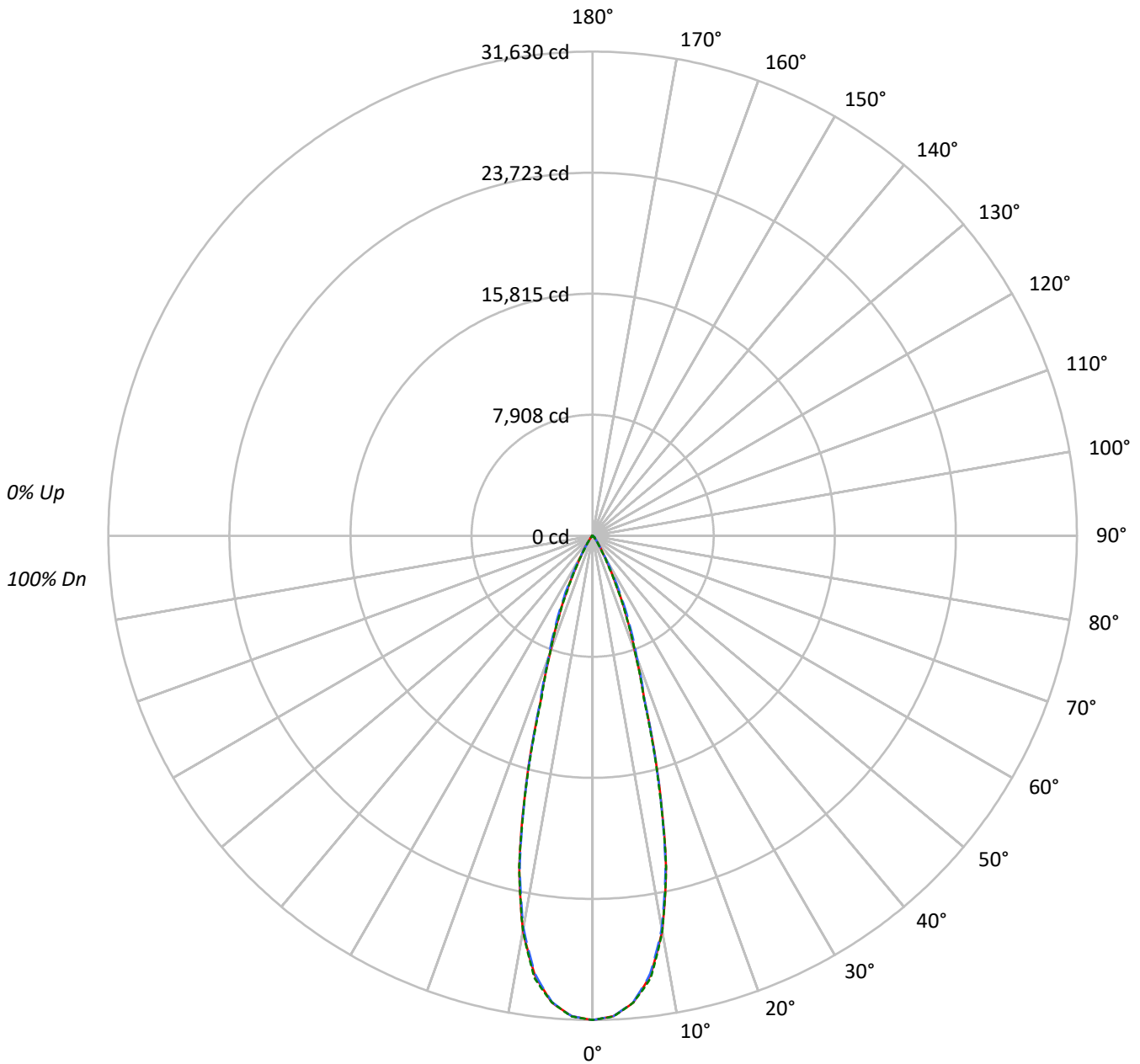
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	2421037	2421037	2421037
5°	2351536	2348785	2351651
10°	2036786	2022423	2036304
15°	1328899	1321767	1315118
20°	660802	685589	659914
25°	332868	375358	326044
30°	133275	145216	116120
35°	61812	59205	49627
40°	26689	29636	25140
45°	18824	23371	18998
50°	6478	17017	6847
55°	3737	7046	3937
60°	2618	3092	2618
65°	1684	1684	1684
70°	1052	694	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 23371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2781.3	28.3
10°-20°	4479.4	45.5
20°-30°	1935.7	19.7
30°-40°	441.2	4.5
40°-50°	151.5	1.5
50°-60°	37.0	0.4
60°-70°	9.6	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°	9196.4	93.5
0°-40°	9637.6	98.0
0°-60°	9826.0	99.9
0°-90°	9836.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9836.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	31630	31630	31630	31630	31630	
5°	30605	30575	30569	30633	30606	2784
15°	16770	16568	16680	16625	16596	4490
25°	3941	4090	4444	3986	3860	1887
35°	662	676	634	629	531	449
45°	174	216	216	216	176	123
55°	28	30	53	31	30	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°	31629.6	31629.6	31629.6	31629.6	31629.6
2.5°	31419.9	31398.2	31410.6	31426.2	31432.4
5°	30604.7	30575.2	30568.9	30632.6	30606.2
7.5°	28960.1	28918.2	28854.5	28999.0	29134.1
10°	26205.3	26158.7	26020.5	26088.8	26199.1
12.5°	22138.2	21987.6	21984.5	22201.9	22172.4
15°	16769.8	16567.9	16679.8	16625.4	16595.9
17.5°	11277.2	11199.6	11348.6	11303.6	11109.5
20°	8112.4	8132.6	8416.7	8273.9	8101.5
22.5°	5919.7	5992.7	6329.6	5961.6	5826.5
25°	3941.3	4090.4	4444.4	3986.3	3860.5
27.5°	2424.1	2492.4	2851.1	2393.0	2324.7
30°	1507.9	1473.7	1643.0	1410.0	1313.8
32.5°	989.2	945.7	1000.1	897.6	819.9
35°	661.5	675.5	633.6	628.9	531.1
37.5°	413.1	475.2	419.3	447.2	341.6
40°	267.1	344.7	296.6	327.7	251.6
42.5°	219.0	265.5	243.8	259.3	223.6
45°	173.9	215.9	215.9	215.9	175.5
47.5°	96.3	144.4	184.8	147.5	102.5
50°	54.4	73.0	142.9	76.1	57.5
52.5°	37.3	41.9	97.8	43.5	38.8
55°	28.0	29.5	52.8	31.1	29.5
57.5°	21.7	23.3	28.0	23.3	21.7
60°	17.1	17.1	20.2	18.6	17.1
62.5°	12.4	12.4	14.0	12.4	12.4
65°	9.3	9.3	9.3	9.3	9.3
67.5°	4.7	6.2	6.2	6.2	6.2
70°	4.7	3.1	3.1	3.1	4.7
72.5°	3.1	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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