

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: P771881

Luminaire Tested: LD6D80BD010-EU6DR3070959040-6LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771881  
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-EU6DR3070959040-6LBCSSQMB  
Description: 6 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9117.1 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

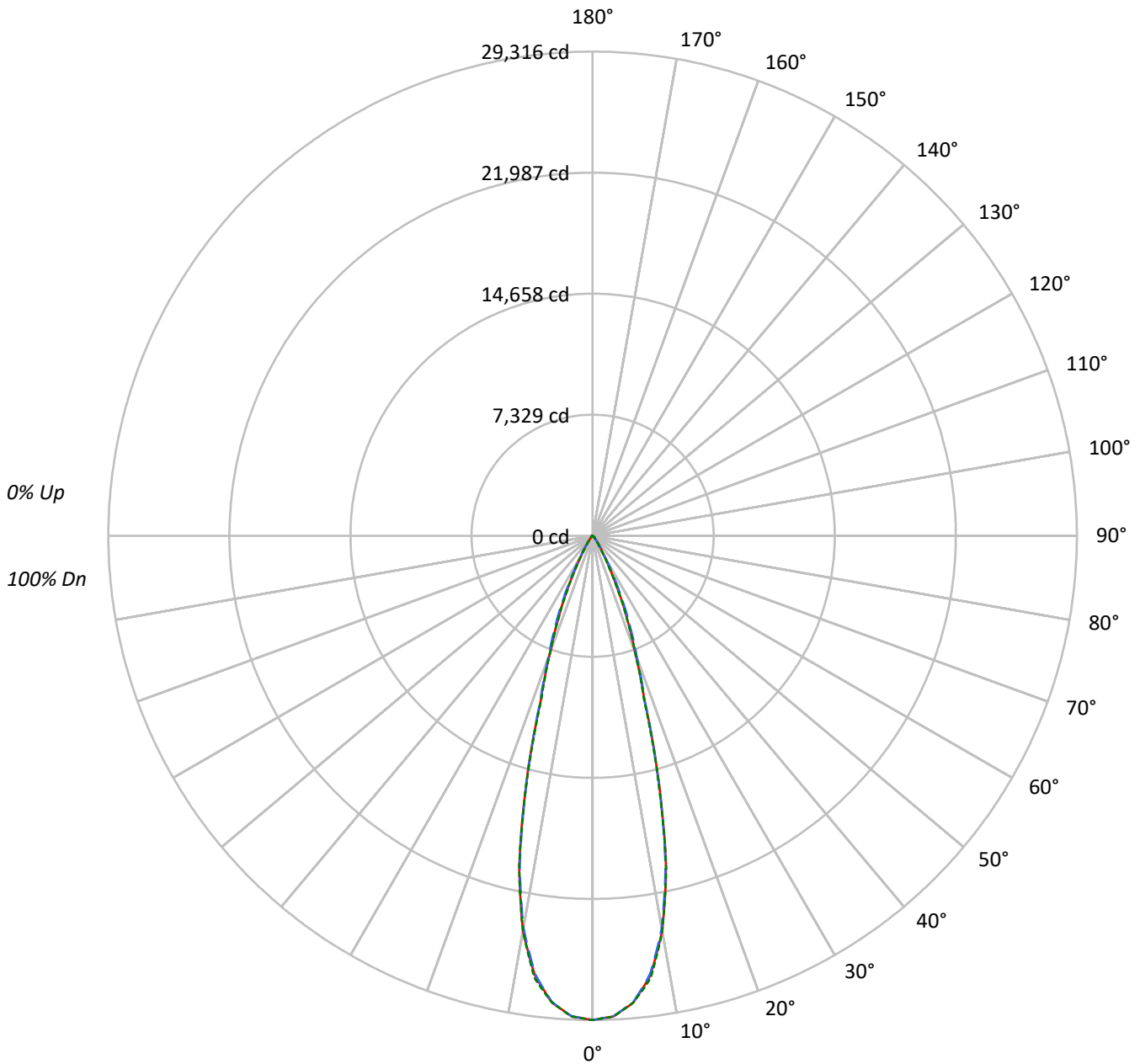
Input Watts (W): 78.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	2243939	2243939	2243939
5°	2179516	2176973	2179631
10°	1887796	1874482	1887346
15°	1231690	1225074	1218916
20°	612466	635445	611643
25°	308519	347901	302193
30°	123526	134592	107626
35°	57289	54869	45992
40°	24740	27468	23301
45°	17450	21661	17601
50°	6002	15766	6347
55°	3456	6526	3643
60°	2419	2863	2419
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 21661 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2577.9	28.3
10°-20°	4151.7	45.5
20°-30°	1794.1	19.7
30°-40°	408.9	4.5
40°-50°	140.4	1.5
50°-60°	34.3	0.4
60°-70°	8.9	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°	8523.7	93.5
0°-40°	8932.6	98.0
0°-60°	9107.3	99.9
0°-90°	9117.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9117.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29316	29316	29316	29316	29316	
5°	28366	28339	28333	28392	28367	2580
15°	15543	15356	15460	15409	15382	4162
25°	3653	3791	4119	3695	3578	1749
35°	613	626	587	583	492	416
45°	161	200	200	200	163	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	8
75°	0	0	1	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°	29315.9	29315.9	29315.9	29315.9	29315.9
2.5°	29121.6	29101.4	29112.9	29127.3	29133.1
5°	28365.9	28338.6	28332.8	28391.9	28367.4
7.5°	26841.7	26802.9	26743.8	26877.7	27002.9
10°	24288.4	24245.2	24117.1	24180.4	24282.6
12.5°	20518.8	20379.2	20376.3	20577.8	20550.5
15°	15543.1	15356.0	15459.6	15409.3	15381.9
17.5°	10452.3	10380.3	10518.5	10476.7	10296.8
20°	7519.0	7537.7	7801.1	7668.7	7508.9
22.5°	5486.7	5554.3	5866.6	5525.5	5400.3
25°	3653.0	3791.1	4119.3	3694.7	3578.1
27.5°	2246.8	2310.1	2642.6	2218.0	2154.6
30°	1397.6	1365.9	1522.8	1306.9	1217.7
32.5°	916.8	876.5	926.9	831.9	760.0
35°	613.1	626.1	587.2	582.9	492.2
37.5°	382.9	440.4	388.6	414.5	316.6
40°	247.6	319.5	274.9	303.7	233.2
42.5°	202.9	246.1	226.0	240.4	207.3
45°	161.2	200.1	200.1	200.1	162.6
47.5°	89.2	133.9	171.3	136.7	95.0
50°	50.4	67.6	132.4	70.5	53.3
52.5°	34.5	38.9	90.7	40.3	36.0
55°	25.9	27.3	48.9	28.8	27.3
57.5°	20.2	21.6	25.9	21.6	20.2
60°	15.8	15.8	18.7	17.3	15.8
62.5°	11.5	11.5	13.0	11.5	11.5
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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