

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: P773452

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773452  
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-EU6DR3070959040-6LBSQW1B  
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

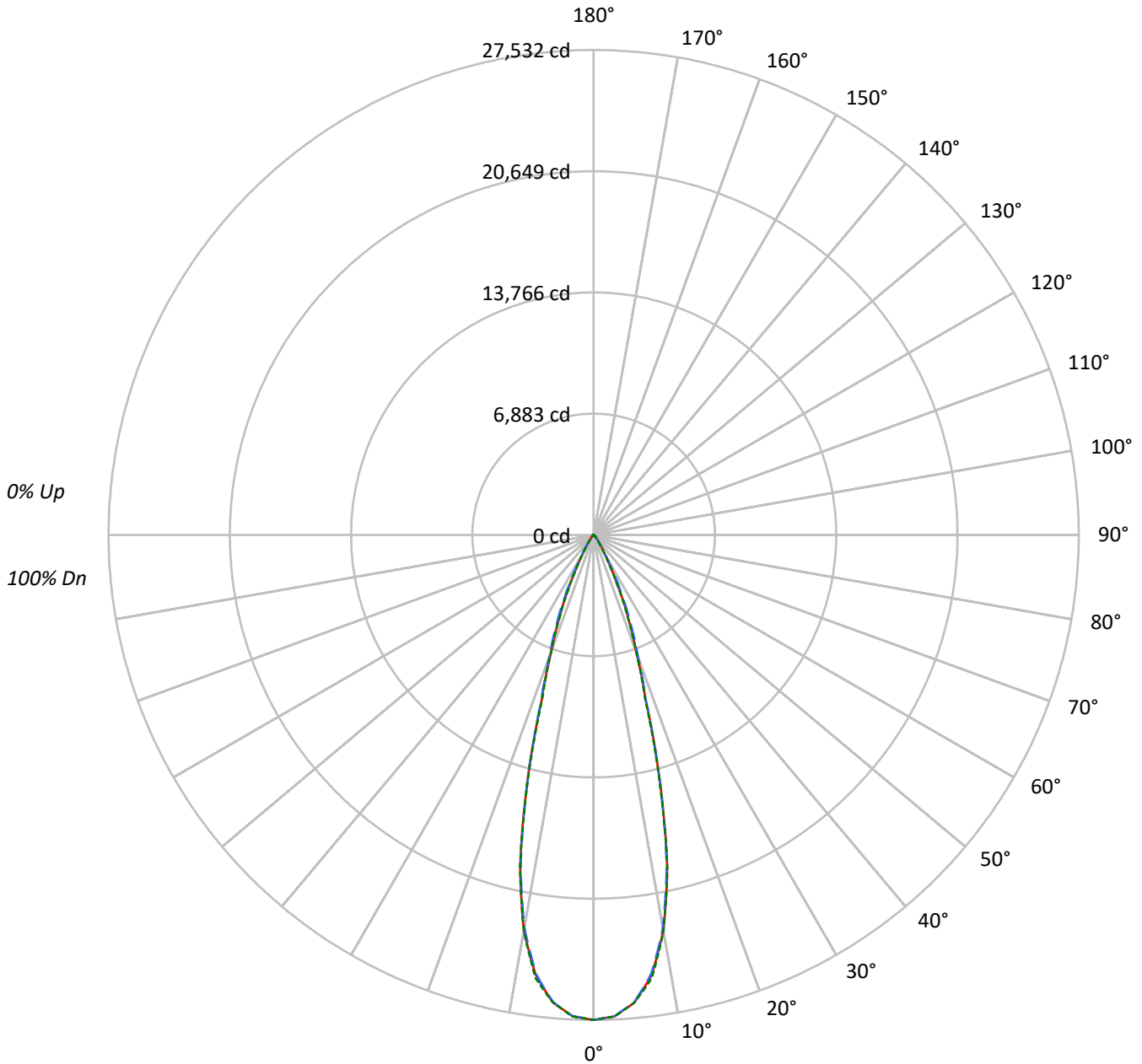
Lumens per Lamp: N/A  
Luminaire Lumens: 8562.4 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2107400	2107400	2107400
5°	2046897	2044508	2047005
10°	1772928	1760422	1772508
15°	1156750	1150537	1144752
20°	575192	596778	574426
25°	289744	326736	283807
30°	116005	126399	101077
35°	53804	51533	43198
40°	23231	25799	21883
45°	16389	20340	16530
50°	5633	14814	5954
55°	3243	6139	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 20340 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2421.0	28.3
10°-20°	3899.1	45.5
20°-30°	1684.9	19.7
30°-40°	384.0	4.5
40°-50°	131.9	1.5
50°-60°	32.2	0.4
60°-70°	8.3	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°	8005.0	93.5
0°-40°	8389.0	98.0
0°-60°	8553.1	99.9
0°-90°	8562.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8562.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27532	27532	27532	27532	27532	
5°	26640	26614	26609	26664	26641	2423
15°	14597	14422	14519	14472	14446	3909
25°	3431	3560	3869	3470	3360	1642
35°	576	588	552	548	462	391
45°	151	188	188	188	153	107
55°	24	26	46	27	26	24
65°	8	8	8	8	8	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°	27532.1	27532.1	27532.1	27532.1	27532.1
2.5°	27349.6	27330.7	27341.5	27355.0	27360.4
5°	26639.9	26614.3	26608.8	26664.3	26641.3
7.5°	25208.5	25172.0	25116.5	25242.2	25359.8
10°	22810.5	22769.9	22649.6	22709.1	22805.1
12.5°	19270.3	19139.2	19136.5	19325.7	19300.0
15°	14597.4	14421.6	14519.0	14471.6	14446.0
17.5°	9816.3	9748.7	9878.5	9839.3	9670.3
20°	7061.4	7079.0	7326.4	7202.0	7052.0
22.5°	5152.8	5216.3	5509.7	5189.3	5071.7
25°	3430.7	3560.5	3868.7	3469.9	3360.4
27.5°	2110.1	2169.5	2481.8	2083.0	2023.5
30°	1312.5	1282.8	1430.1	1227.4	1143.6
32.5°	861.1	823.2	870.5	781.3	713.7
35°	575.8	588.0	551.5	547.5	462.3
37.5°	359.6	413.6	365.0	389.3	297.4
40°	232.5	300.1	258.2	285.2	219.0
42.5°	190.6	231.1	212.2	225.7	194.6
45°	151.4	187.9	187.9	187.9	152.7
47.5°	83.8	125.7	160.9	128.4	89.2
50°	47.3	63.5	124.4	66.2	50.0
52.5°	32.4	36.5	85.2	37.8	33.8
55°	24.3	25.7	46.0	27.0	25.7
57.5°	18.9	20.3	24.3	20.3	18.9
60°	14.9	14.9	17.6	16.2	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	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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