

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: P772672

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772672  
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: LD6D85BD010-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**

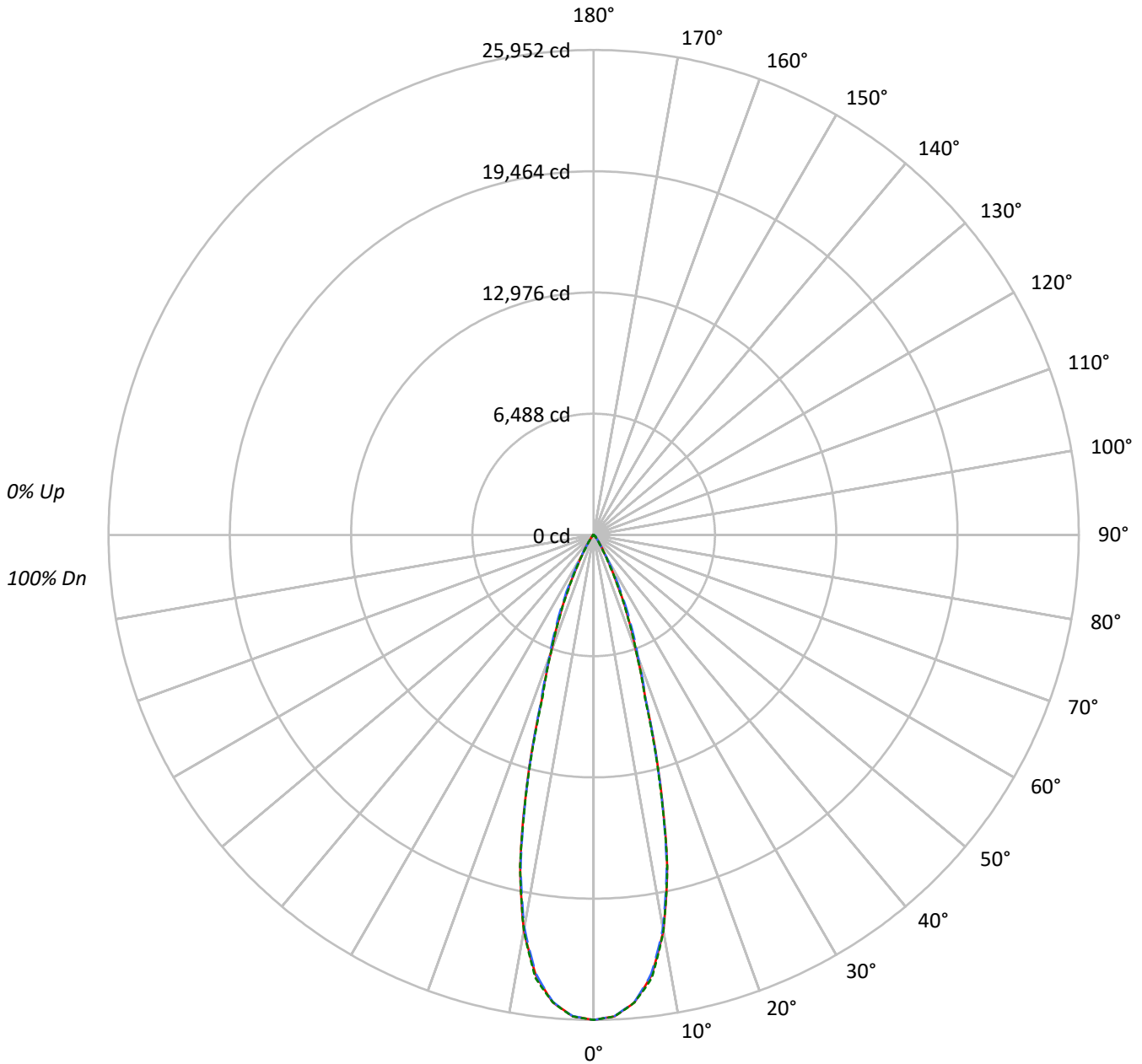
Lumens per Lamp: N/A  
Luminaire Lumens: 8071.1 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 87.7  
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°	1986492	1986492	1986492
5°	1929469	1927218	1929569
10°	1671210	1659427	1670814
15°	1090383	1084527	1079075
20°	542194	562542	541469
25°	273123	307987	267524
30°	109350	119151	95279
35°	50720	48581	40722
40°	21903	24321	20624
45°	15447	19171	15588
50°	5311	13956	5609
55°	3056	5778	3229
60°	2143	2541	2143
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19171 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2282.1	28.3
10°-20°	3675.4	45.5
20°-30°	1588.2	19.7
30°-40°	362.0	4.5
40°-50°	124.3	1.5
50°-60°	30.4	0.4
60°-70°	7.9	0.1
70°-80°	0.8	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°	7545.8	93.5
0°-40°	7907.8	98.0
0°-60°	8062.4	99.9
0°-90°	8071.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8071.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25952	25952	25952	25952	25952	
5°	25112	25087	25082	25134	25113	2284
15°	13760	13594	13686	13641	13617	3684
25°	3234	3356	3647	3271	3168	1548
35°	543	554	520	516	436	368
45°	143	177	177	177	144	101
55°	23	24	43	26	24	22
65°	8	8	8	8	8	7
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°	25952.5	25952.5	25952.5	25952.5	25952.5
2.5°	25780.5	25762.7	25772.9	25785.6	25790.7
5°	25111.6	25087.4	25082.3	25134.5	25112.9
7.5°	23762.2	23727.8	23675.6	23794.1	23904.9
10°	21501.8	21463.6	21350.2	21406.3	21496.7
12.5°	18164.7	18041.1	18038.6	18217.0	18192.8
15°	13759.9	13594.3	13686.0	13641.4	13617.2
17.5°	9253.1	9189.4	9311.7	9274.8	9115.5
20°	6656.3	6672.9	6906.1	6788.8	6647.4
22.5°	4857.2	4917.1	5193.6	4891.6	4780.7
25°	3233.9	3356.2	3646.7	3270.8	3167.6
27.5°	1989.0	2045.1	2339.4	1963.5	1907.5
30°	1237.2	1209.2	1348.1	1157.0	1078.0
32.5°	811.7	776.0	820.6	736.5	672.8
35°	542.8	554.3	519.9	516.0	435.8
37.5°	338.9	389.9	344.0	367.0	280.3
40°	219.2	282.9	243.4	268.9	206.4
42.5°	179.7	217.9	200.0	212.8	183.5
45°	142.7	177.1	177.1	177.1	144.0
47.5°	79.0	118.5	151.6	121.0	84.1
50°	44.6	59.9	117.2	62.4	47.1
52.5°	30.6	34.4	80.3	35.7	31.9
55°	22.9	24.2	43.3	25.5	24.2
57.5°	17.8	19.1	22.9	19.1	17.8
60°	14.0	14.0	16.6	15.3	14.0
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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