

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: P771867

Luminaire Tested: LD6D80BD010-EU6DR3070959030-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771867  
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-EU6DR3070959030-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

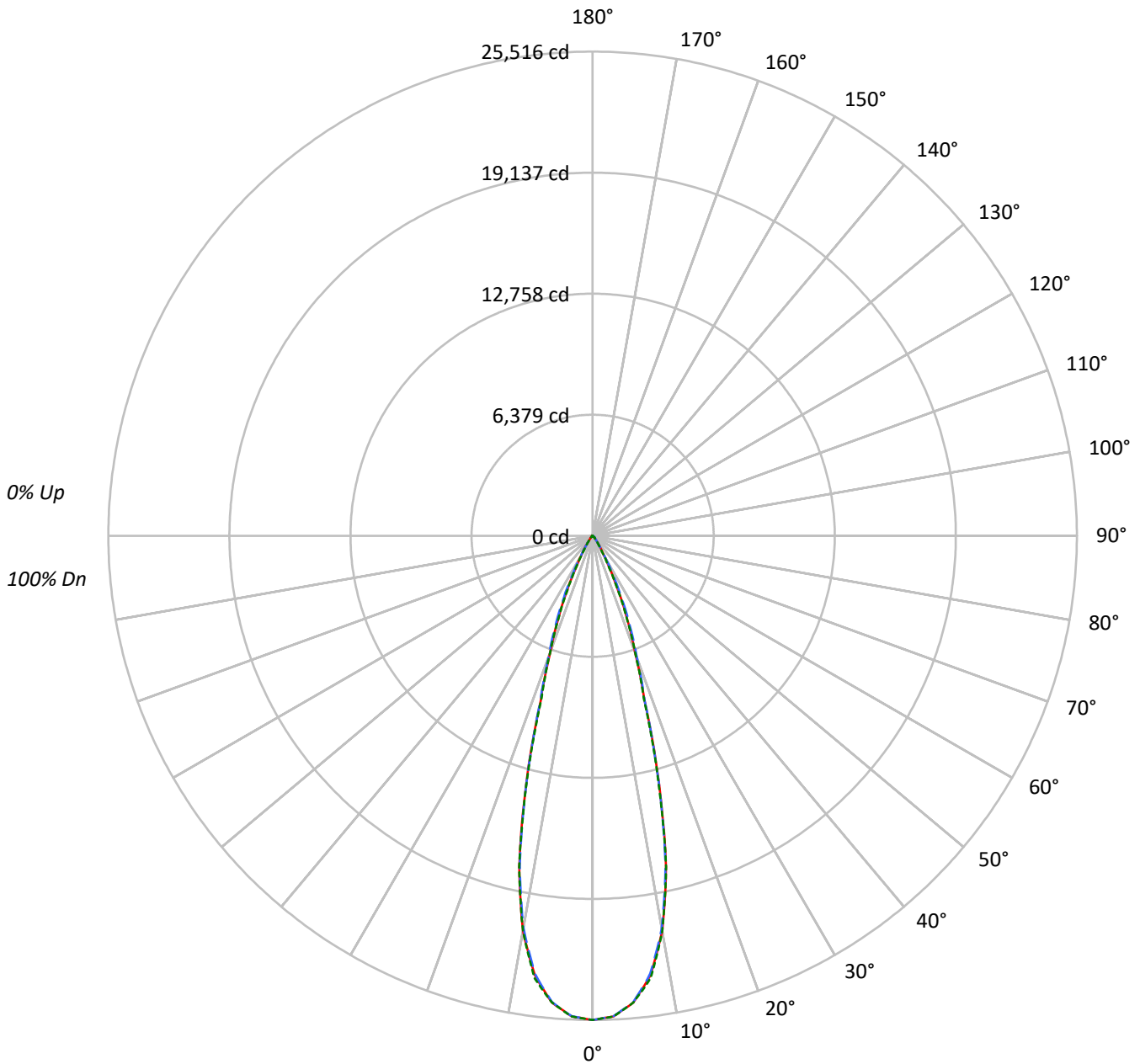
Lumens per Lamp: N/A  
Luminaire Lumens: 7935.3 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	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°	1953074	1953074	1953074
5°	1897006	1894793	1897106
10°	1643097	1631509	1642709
15°	1072039	1066277	1060921
20°	533071	553077	532362
25°	268529	302810	263022
30°	107511	117145	93670
35°	49870	47758	40031
40°	21533	23911	20274
45°	15187	18846	15328
50°	5216	13730	5525
55°	3003	5685	3176
60°	2113	2495	2113
65°	1358	1358	1358
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: 18846 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2243.7	28.3
10°-20°	3613.6	45.5
20°-30°	1561.5	19.7
30°-40°	355.9	4.5
40°-50°	122.2	1.5
50°-60°	29.8	0.4
60°-70°	7.7	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°	7418.8	93.5
0°-40°	7774.7	98.0
0°-60°	7926.8	99.9
0°-90°	7935.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7935.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25516	25516	25516	25516	25516	
5°	24689	24665	24660	24712	24690	2246
15°	13528	13366	13456	13412	13388	3622
25°	3180	3300	3585	3216	3114	1522
35°	534	545	511	507	428	362
45°	140	174	174	174	142	100
55°	22	24	43	25	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°	25515.9	25515.9	25515.9	25515.9	25515.9
2.5°	25346.8	25329.3	25339.3	25351.8	25356.8
5°	24689.1	24665.3	24660.3	24711.7	24690.4
7.5°	23362.5	23328.6	23277.3	23393.8	23502.8
10°	21140.1	21102.5	20991.0	21046.1	21135.1
12.5°	17859.1	17737.6	17735.1	17910.5	17886.7
15°	13528.4	13365.5	13455.7	13411.9	13388.1
17.5°	9097.4	9034.8	9155.1	9118.7	8962.1
20°	6544.3	6560.6	6789.9	6674.6	6535.6
22.5°	4775.5	4834.3	5106.2	4809.3	4700.3
25°	3179.5	3299.7	3585.4	3215.8	3114.3
27.5°	1955.5	2010.7	2300.0	1930.5	1875.4
30°	1216.4	1188.9	1325.4	1137.5	1059.8
32.5°	798.0	762.9	806.8	724.1	661.4
35°	533.7	544.9	511.1	507.4	428.4
37.5°	333.2	383.3	338.2	360.8	275.6
40°	215.5	278.1	239.3	264.3	202.9
42.5°	176.6	214.2	196.7	209.2	180.4
45°	140.3	174.1	174.1	174.1	141.6
47.5°	77.7	116.5	149.1	119.0	82.7
50°	43.8	58.9	115.3	61.4	46.4
52.5°	30.1	33.8	78.9	35.1	31.3
55°	22.5	23.8	42.6	25.1	23.8
57.5°	17.5	18.8	22.5	18.8	17.5
60°	13.8	13.8	16.3	15.0	13.8
62.5°	10.0	10.0	11.3	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.8	5.0	5.0	5.0	5.0
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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