

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: P773453

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P773453  
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-EU6DR3070959040-6LBSQW1MW  
Description: 6 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9479.7 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

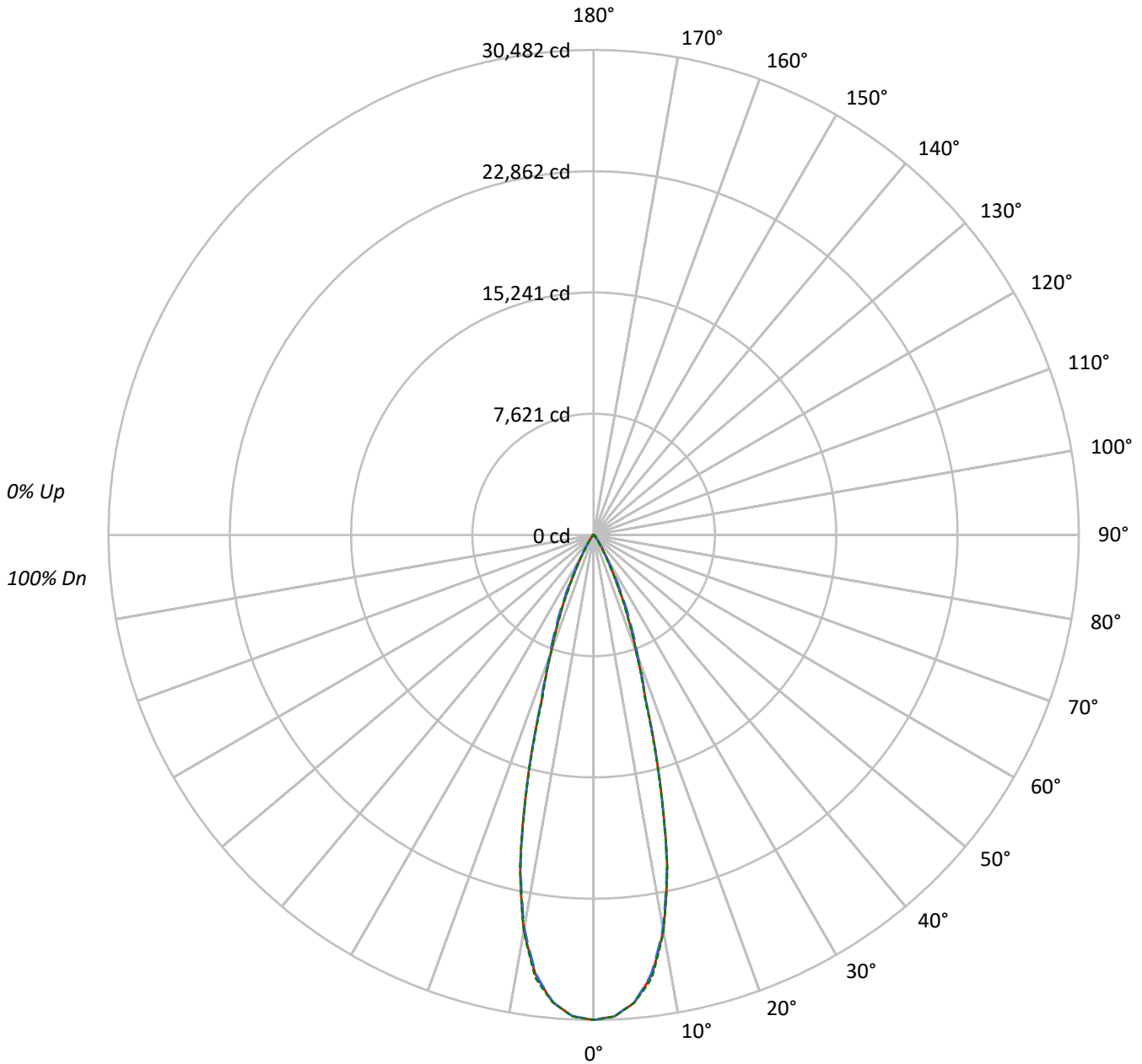
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	2333180	2333180	2333180
5°	2266194	2263551	2266310
10°	1962870	1949028	1962404
15°	1280679	1273801	1267390
20°	636821	660712	635966
25°	320782	361735	314211
30°	128441	139948	111904
35°	59569	57056	47824
40°	25719	28557	24221
45°	18142	22516	18305
50°	6240	16397	6597
55°	3590	6793	3790
60°	2526	2985	2526
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22516 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2680.4	28.3
10°-20°	4316.8	45.5
20°-30°	1865.4	19.7
30°-40°	425.2	4.5
40°-50°	146.0	1.5
50°-60°	35.7	0.4
60°-70°	9.3	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°	8862.6	93.5
0°-40°	9287.8	98.0
0°-60°	9469.4	99.9
0°-90°	9479.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9479.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30482	30482	30482	30482	30482	
5°	29494	29466	29460	29521	29496	2683
15°	16161	15967	16074	16022	15994	4327
25°	3798	3942	4283	3842	3720	1818
35°	638	651	611	606	512	432
45°	168	208	208	208	169	119
55°	27	28	51	30	28	26
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°	30481.8	30481.8	30481.8	30481.8	30481.8
2.5°	30279.7	30258.8	30270.7	30285.7	30291.7
5°	29494.0	29465.6	29459.6	29521.0	29495.5
7.5°	27909.2	27868.8	27807.4	27946.6	28076.8
10°	25254.3	25209.4	25076.2	25142.1	25248.3
12.5°	21334.8	21189.7	21186.7	21396.2	21367.8
15°	16161.3	15966.7	16074.5	16022.1	15993.6
17.5°	10868.0	10793.1	10936.8	10893.4	10706.3
20°	7818.0	7837.4	8111.3	7973.6	7807.5
22.5°	5704.9	5775.2	6099.9	5745.3	5615.1
25°	3798.2	3941.9	4283.1	3841.6	3720.4
27.5°	2336.1	2402.0	2747.7	2306.2	2240.3
30°	1453.2	1420.2	1583.4	1358.9	1266.1
32.5°	953.3	911.4	963.8	865.0	790.2
35°	637.5	651.0	610.6	606.1	511.8
37.5°	398.1	457.9	404.1	431.0	329.2
40°	257.4	332.2	285.8	315.8	242.4
42.5°	211.0	255.9	235.0	249.9	215.5
45°	167.6	208.0	208.0	208.0	169.1
47.5°	92.8	139.2	178.1	142.2	98.8
50°	52.4	70.3	137.7	73.3	55.4
52.5°	35.9	40.4	94.3	41.9	37.4
55°	26.9	28.4	50.9	29.9	28.4
57.5°	21.0	22.4	26.9	22.4	21.0
60°	16.5	16.5	19.5	18.0	16.5
62.5°	12.0	12.0	13.5	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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