

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: P756159

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756159  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D95BD010-EU4DR3070959040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST 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: 8305.5 lumens  
Efficiency: N/A  
Efficacy: 83.7 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

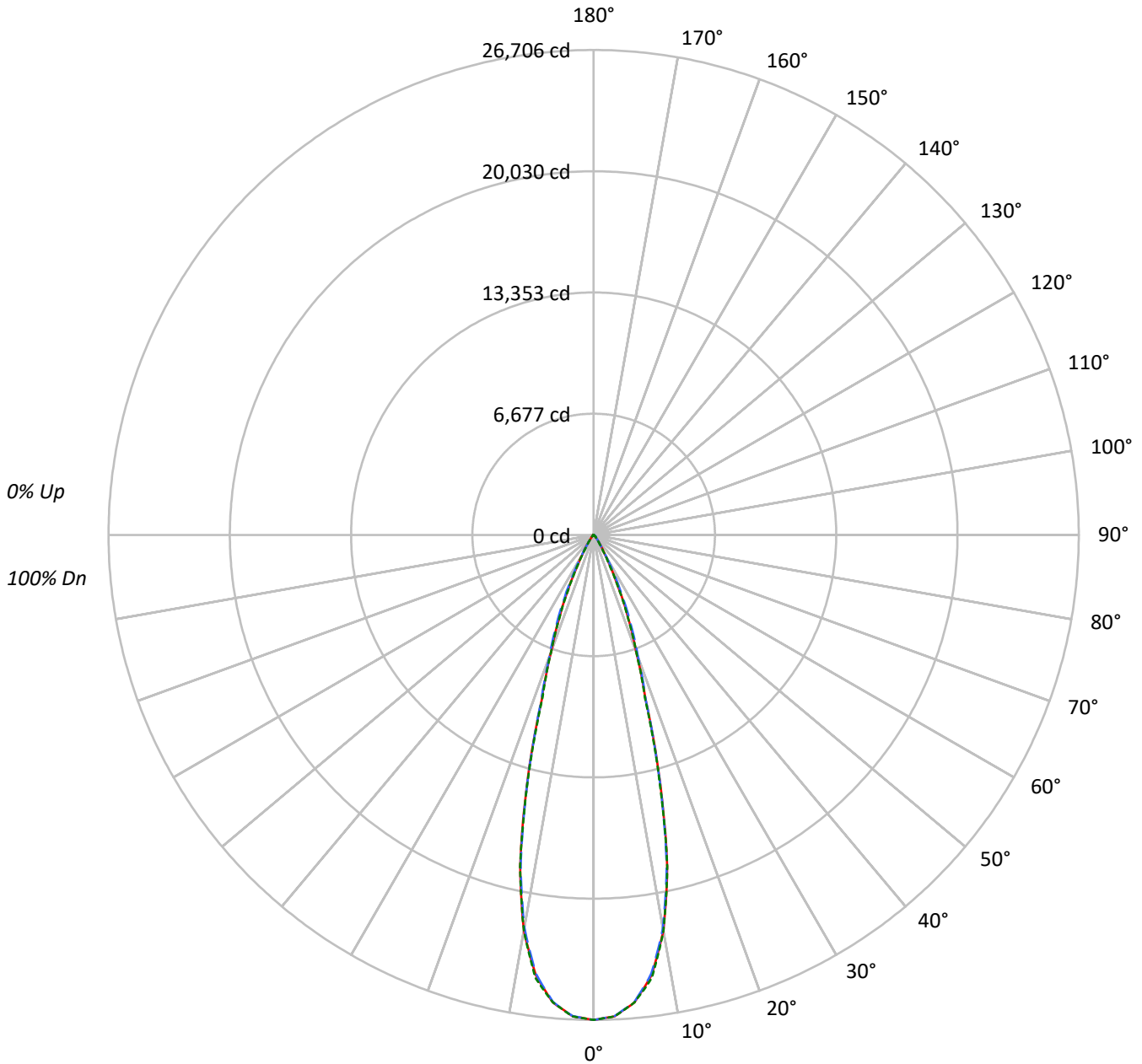
Input Watts (W): 99.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	2044183	2044183	2044183
5°	1985498	1983178	1985598
10°	1719741	1707616	1719337
15°	1122049	1116019	1110408
20°	557940	578874	557190
25°	281054	316931	275294
30°	112531	122607	98045
35°	52197	49992	41899
40°	22532	25020	21223
45°	15902	19734	16042
50°	5466	14361	5775
55°	3149	5952	3323
60°	2204	2602	2204
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 19734 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2348.4	28.3
10°-20°	3782.1	45.5
20°-30°	1634.4	19.7
30°-40°	372.5	4.5
40°-50°	127.9	1.5
50°-60°	31.2	0.4
60°-70°	8.1	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°	7764.9	93.5
0°-40°	8137.4	98.0
0°-60°	8296.5	99.9
0°-90°	8305.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8305.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26706	26706	26706	26706	26706	
5°	25841	25816	25811	25864	25842	2350
15°	14160	13989	14083	14038	14013	3791
25°	3328	3454	3753	3366	3260	1593
35°	559	570	535	531	448	379
45°	147	182	182	182	148	104
55°	24	25	45	26	25	23
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°	26706.2	26706.2	26706.2	26706.2	26706.2
2.5°	26529.2	26510.8	26521.3	26534.4	26539.7
5°	25840.8	25815.9	25810.6	25864.4	25842.1
7.5°	24452.3	24416.8	24363.1	24485.0	24599.1
10°	22126.2	22086.9	21970.2	22027.9	22121.0
12.5°	18692.2	18565.0	18562.4	18746.0	18721.1
15°	14159.5	13989.0	14083.4	14037.5	14012.6
17.5°	9521.8	9456.3	9582.1	9544.1	9380.2
20°	6849.6	6866.7	7106.6	6986.0	6840.4
22.5°	4998.2	5059.9	5344.4	5033.6	4919.6
25°	3327.8	3453.7	3752.6	3365.8	3259.6
27.5°	2046.8	2104.4	2407.3	2020.5	1962.8
30°	1273.2	1244.3	1387.2	1190.6	1109.3
32.5°	835.2	798.5	844.4	757.9	692.3
35°	558.6	570.4	535.0	531.0	448.4
37.5°	348.8	401.2	354.0	377.6	288.5
40°	225.5	291.1	250.4	276.7	212.4
42.5°	184.9	224.2	205.9	219.0	188.8
45°	146.9	182.3	182.3	182.3	148.2
47.5°	81.3	121.9	156.0	124.6	86.5
50°	45.9	61.6	120.6	64.2	48.5
52.5°	31.5	35.4	82.6	36.7	32.8
55°	23.6	24.9	44.6	26.2	24.9
57.5°	18.4	19.7	23.6	19.7	18.4
60°	14.4	14.4	17.0	15.7	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	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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