

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: P756143

Luminaire Tested: LD4D95BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P756143  
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-EU4DR3070959030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

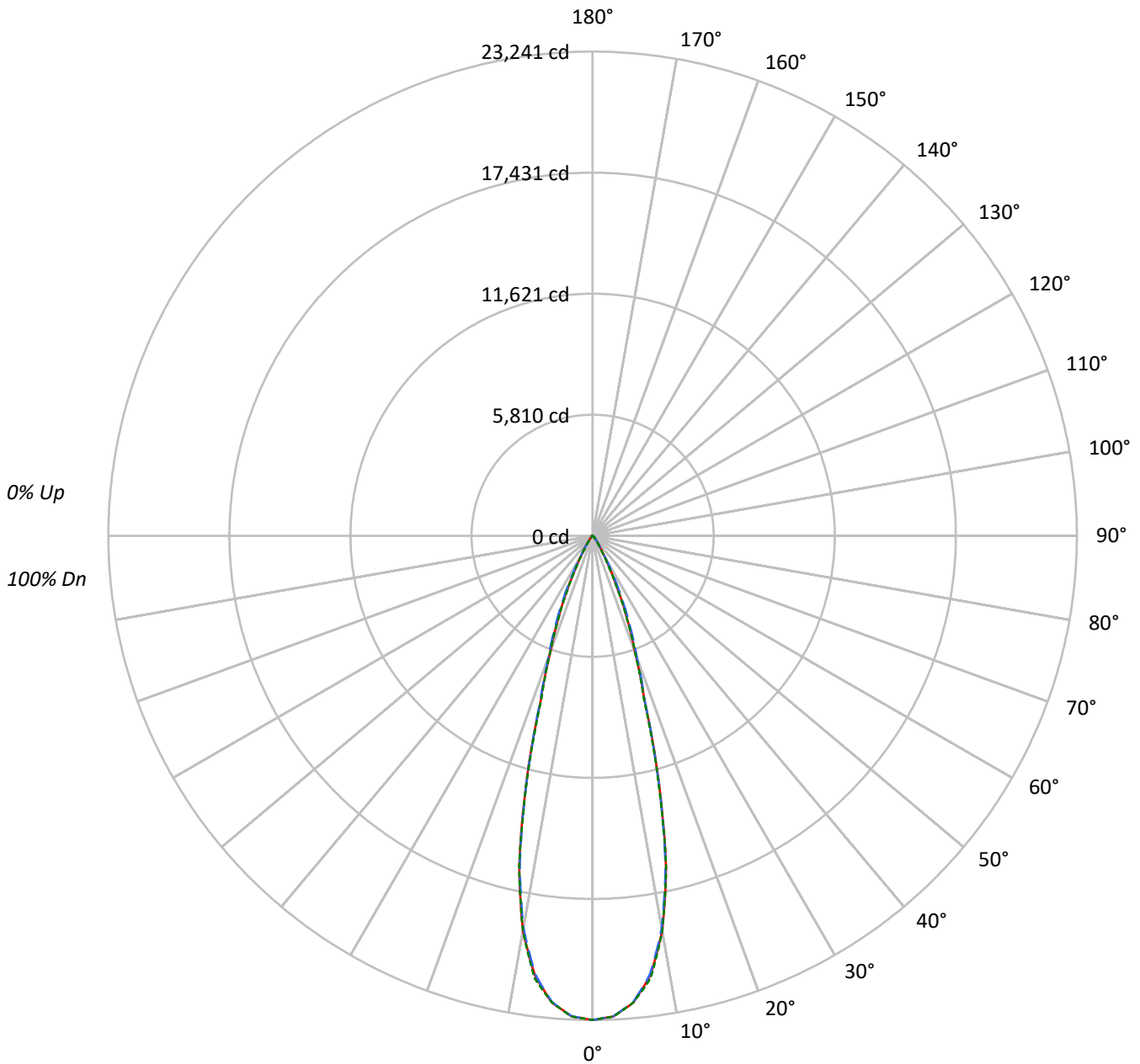
Lumens per Lamp: N/A  
Luminaire Lumens: 7227.8 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1778930	1778930	1778930
5°	1727860	1725847	1727952
10°	1496595	1486040	1496238
15°	976455	971209	966328
20°	485542	503763	484890
25°	244585	275809	239569
30°	97930	106698	85318
35°	45422	43497	36461
40°	19614	21773	18465
45°	13834	17168	13953
50°	4751	12503	5025
55°	2736	5178	2896
60°	1929	2266	1929
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17168 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2043.7	28.3
10°-20°	3291.4	45.5
20°-30°	1422.3	19.7
30°-40°	324.2	4.5
40°-50°	111.3	1.5
50°-60°	27.2	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6757.3	93.5
0°-40°	7081.5	98.0
0°-60°	7220.0	99.9
0°-90°	7227.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7227.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23241	23241	23241	23241	23241	
5°	22488	22466	22462	22508	22489	2045
15°	12322	12174	12256	12216	12194	3299
25°	2896	3006	3266	2929	2837	1386
35°	486	496	466	462	390	330
45°	128	159	159	159	129	91
55°	20	22	39	23	22	20
65°	7	7	7	7	7	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°	23240.8	23240.8	23240.8	23240.8	23240.8
2.5°	23086.8	23070.8	23079.9	23091.4	23095.9
5°	22487.7	22466.1	22461.5	22508.3	22488.9
7.5°	21279.4	21248.6	21201.8	21307.9	21407.2
10°	19255.2	19220.9	19119.4	19169.6	19250.6
12.5°	16266.8	16156.1	16153.8	16313.5	16291.9
15°	12322.2	12173.8	12256.0	12216.0	12194.4
17.5°	8286.3	8229.2	8338.8	8305.7	8163.0
20°	5960.8	5975.7	6184.5	6079.5	5952.8
22.5°	4349.7	4403.3	4650.9	4380.5	4281.2
25°	2896.0	3005.5	3265.7	2929.1	2836.6
27.5°	1781.2	1831.4	2095.0	1758.4	1708.1
30°	1108.0	1082.9	1207.2	1036.1	965.3
32.5°	726.8	694.9	734.8	659.5	602.5
35°	486.1	496.4	465.5	462.1	390.2
37.5°	303.5	349.2	308.1	328.6	251.0
40°	196.3	253.3	217.9	240.8	184.8
42.5°	160.9	195.1	179.1	190.6	164.3
45°	127.8	158.6	158.6	158.6	128.9
47.5°	70.7	106.1	135.8	108.4	75.3
50°	39.9	53.6	105.0	55.9	42.2
52.5°	27.4	30.8	71.9	31.9	28.5
55°	20.5	21.7	38.8	22.8	21.7
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.6	12.6	14.8	13.7	12.6
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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