

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: P752217

Luminaire Tested: LD4D70BD010-EU4DR3070959024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P752217  
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: LD4D70BD010-EU4DR3070959024-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

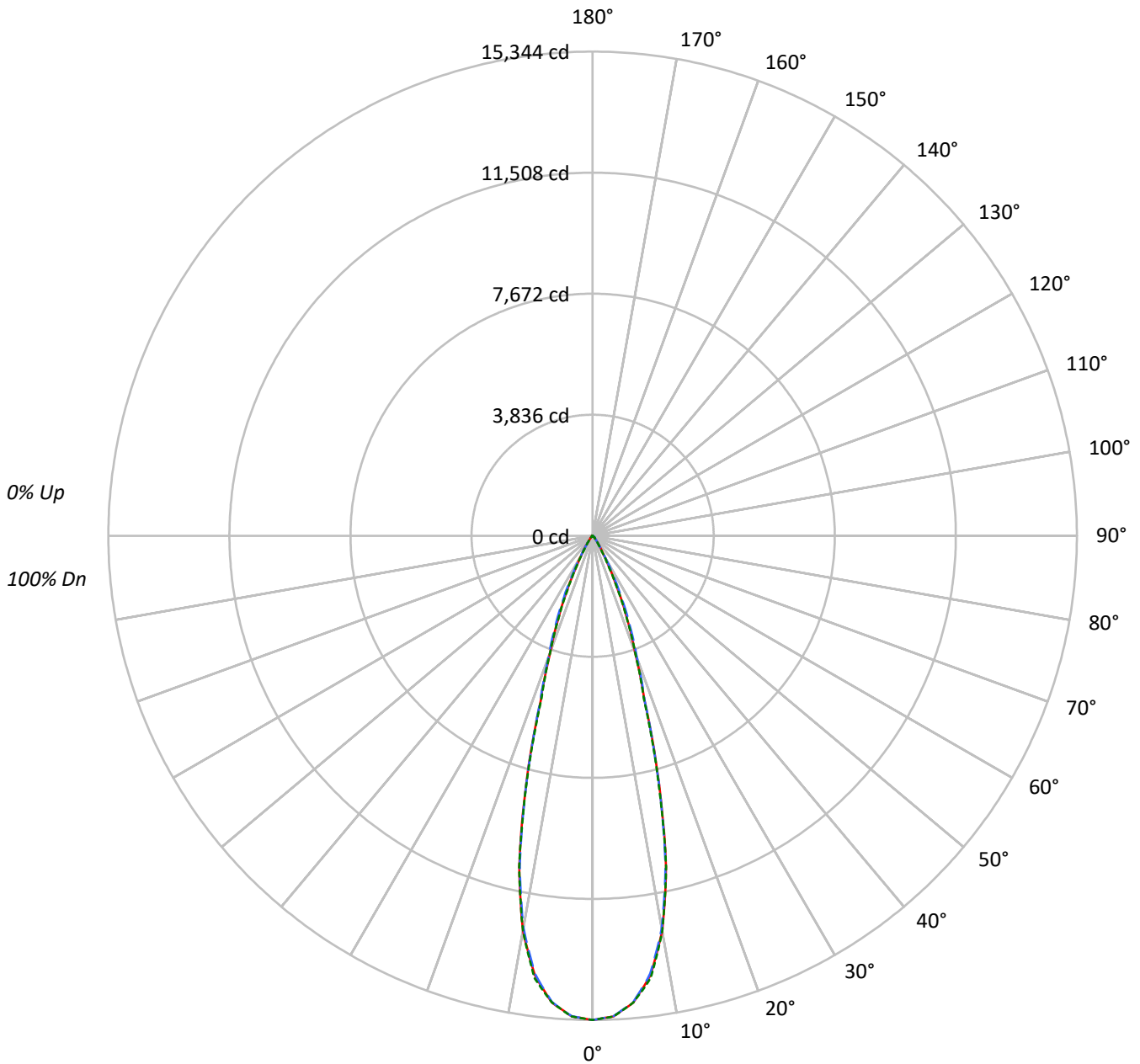
Lumens per Lamp: N/A  
Luminaire Lumens: 4771.9 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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					70					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								
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°	1174482	1174482	1174482
5°	1140765	1139429	1140819
10°	988077	981105	987844
15°	644670	641207	637982
20°	320561	332592	320138
25°	161480	182096	158170
30°	64653	70443	56328
35°	29986	28724	24071
40°	12950	14379	12190
45°	9136	11334	9212
50°	3144	8252	3322
55°	1815	3416	1908
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11334 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1349.3	28.3
10°-20°	2173.0	45.5
20°-30°	939.0	19.7
30°-40°	214.0	4.5
40°-50°	73.5	1.5
50°-60°	18.0	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4461.3	93.5
0°-40°	4675.3	98.0
0°-60°	4766.8	99.9
0°-90°	4771.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4771.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15344	15344	15344	15344	15344	
5°	14847	14832	14829	14860	14848	1350
15°	8135	8037	8092	8065	8051	2178
25°	1912	1984	2156	1934	1873	915
35°	321	328	307	305	258	218
45°	84	105	105	105	85	60
55°	14	14	26	15	14	13
65°	4	4	4	4	4	4
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°	15344.0	15344.0	15344.0	15344.0	15344.0
2.5°	15242.3	15231.7	15237.8	15245.3	15248.3
5°	14846.8	14832.5	14829.4	14860.3	14847.5
7.5°	14049.0	14028.6	13997.8	14067.8	14133.4
10°	12712.6	12690.0	12622.9	12656.1	12709.6
12.5°	10739.6	10666.5	10665.0	10770.5	10756.2
15°	8135.3	8037.4	8091.6	8065.2	8050.9
17.5°	5470.7	5433.1	5505.4	5483.5	5389.4
20°	3935.4	3945.2	4083.1	4013.8	3930.2
22.5°	2871.7	2907.1	3070.6	2892.1	2826.5
25°	1912.0	1984.3	2156.1	1933.8	1872.8
27.5°	1176.0	1209.1	1383.1	1160.9	1127.7
30°	731.5	714.9	797.0	684.0	637.3
32.5°	479.9	458.8	485.1	435.4	397.8
35°	320.9	327.7	307.4	305.1	257.6
37.5°	200.4	230.5	203.4	217.0	165.7
40°	129.6	167.2	143.9	159.0	122.0
42.5°	106.2	128.8	118.3	125.8	108.5
45°	84.4	104.7	104.7	104.7	85.1
47.5°	46.7	70.1	89.6	71.6	49.7
50°	26.4	35.4	69.3	36.9	27.9
52.5°	18.1	20.3	47.5	21.1	18.8
55°	13.6	14.3	25.6	15.1	14.3
57.5°	10.5	11.3	13.6	11.3	10.5
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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