

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: P753023

Luminaire Tested: LD4D75BD010-EU4DR3070959030-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753023  
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: LD4D75BD010-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: 5885.9 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

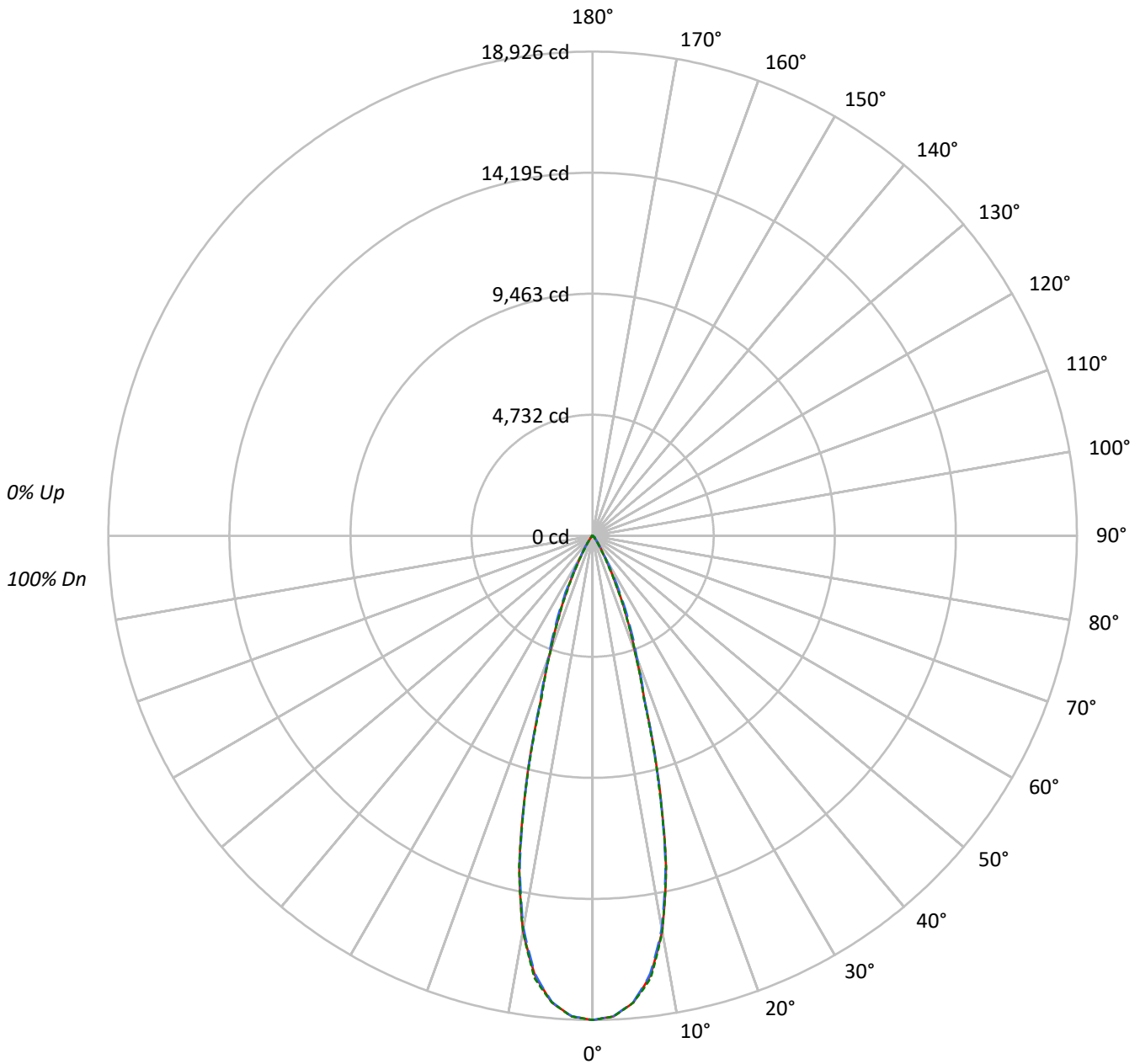
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1448668	1448668	1448668
5°	1407078	1405434	1407147
10°	1218739	1210150	1218451
15°	795169	790898	786920
20°	395403	410236	394873
25°	199173	224603	195094
30°	79750	86891	69479
35°	36984	35424	29696
40°	15967	17736	15038
45°	11269	13986	11366
50°	3870	10181	4096
55°	2229	4217	2362
60°	1561	1852	1561
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1664.3	28.3
10°-20°	2680.3	45.5
20°-30°	1158.2	19.7
30°-40°	264.0	4.5
40°-50°	90.7	1.5
50°-60°	22.1	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5502.8	93.5
0°-40°	5766.8	98.0
0°-60°	5879.6	99.9
0°-90°	5885.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5885.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18926	18926	18926	18926	18926	
5°	18313	18295	18291	18330	18314	1666
15°	10034	9914	9981	9948	9930	2687
25°	2358	2448	2659	2385	2310	1129
35°	396	404	379	376	318	268
45°	104	129	129	129	105	74
55°	17	18	32	19	18	16
65°	6	6	6	6	6	5
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°	18926.1	18926.1	18926.1	18926.1	18926.1
2.5°	18800.6	18787.6	18795.0	18804.3	18808.0
5°	18312.8	18295.1	18291.4	18329.5	18313.7
7.5°	17328.8	17303.7	17265.6	17352.0	17432.8
10°	15680.3	15652.5	15569.8	15610.6	15676.6
12.5°	13246.8	13156.6	13154.8	13284.8	13267.2
15°	10034.5	9913.7	9980.6	9948.1	9930.4
17.5°	6747.9	6701.4	6790.6	6763.7	6647.5
20°	4854.2	4866.2	5036.3	4950.8	4847.7
22.5°	3542.1	3585.8	3787.4	3567.2	3486.4
25°	2358.3	2447.5	2659.4	2385.3	2310.0
27.5°	1450.5	1491.4	1706.0	1431.9	1391.0
30°	902.3	881.8	983.1	843.7	786.1
32.5°	591.9	565.9	598.4	537.1	490.6
35°	395.8	404.2	379.1	376.3	317.8
37.5°	247.2	284.3	250.9	267.6	204.4
40°	159.8	206.3	177.5	196.1	150.5
42.5°	131.0	158.9	145.9	155.2	133.8
45°	104.1	129.2	129.2	129.2	105.0
47.5°	57.6	86.4	110.6	88.3	61.3
50°	32.5	43.7	85.5	45.5	34.4
52.5°	22.3	25.1	58.5	26.0	23.2
55°	16.7	17.7	31.6	18.6	17.7
57.5°	13.0	13.9	16.7	13.9	13.0
60°	10.2	10.2	12.1	11.2	10.2
62.5°	7.4	7.4	8.4	7.4	7.4
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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