

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: P752269

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752269
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-EU4DR3070959040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

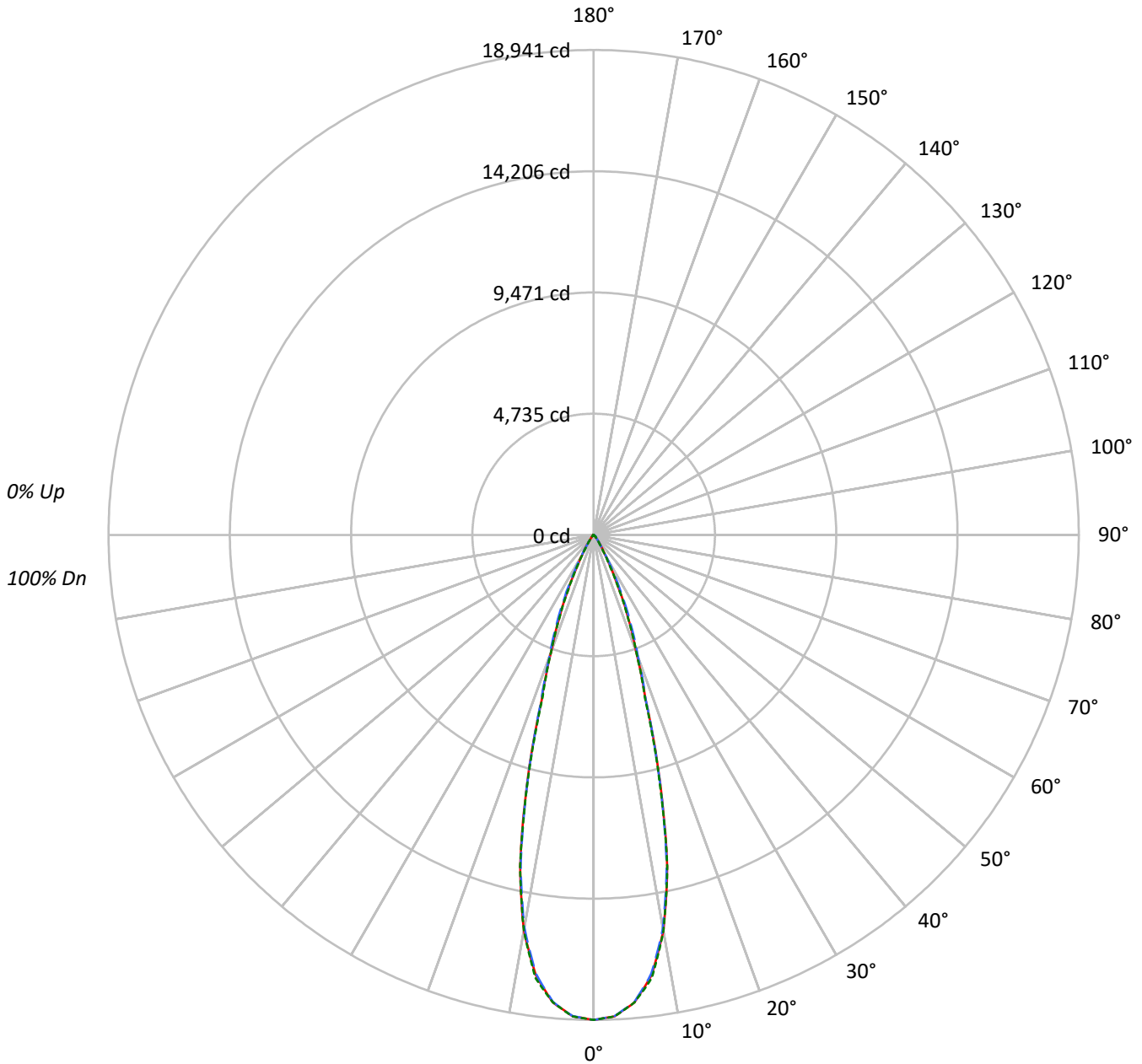
Lumens per Lamp: N/A
Luminaire Lumens: 5890.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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																			
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°	1449824	1449824	1449824
5°	1408200	1406563	1408277
10°	1219718	1211114	1219431
15°	795803	791532	787554
20°	395720	410562	395183
25°	199334	224780	195255
30°	79811	86962	69532
35°	37022	35452	29715
40°	15987	17746	15058
45°	11280	13997	11377
50°	3870	10193	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: 13997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1665.6	28.3
10°-20°	2682.5	45.5
20°-30°	1159.2	19.7
30°-40°	264.2	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°	5507.2	93.5
0°-40°	5771.4	98.0
0°-60°	5884.3	99.9
0°-90°	5890.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5890.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18941	18941	18941	18941	18941	
5°	18327	18310	18306	18344	18328	1667
15°	10042	9922	9989	9956	9938	2689
25°	2360	2450	2662	2387	2312	1130
35°	396	404	379	377	318	269
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°	18941.2	18941.2	18941.2	18941.2	18941.2
2.5°	18815.7	18802.7	18810.1	18819.4	18823.1
5°	18327.4	18309.8	18306.1	18344.2	18328.4
7.5°	17342.6	17317.5	17279.4	17365.9	17446.8
10°	15692.9	15665.0	15582.2	15623.2	15689.2
12.5°	13257.4	13167.2	13165.3	13295.5	13277.8
15°	10042.5	9921.6	9988.6	9956.0	9938.4
17.5°	6753.3	6706.8	6796.1	6769.1	6652.9
20°	4858.1	4870.1	5040.3	4954.8	4851.5
22.5°	3545.0	3588.7	3790.5	3570.1	3489.2
25°	2360.2	2449.5	2661.5	2387.2	2311.9
27.5°	1451.7	1492.6	1707.4	1433.1	1392.1
30°	903.0	882.5	983.9	844.4	786.7
32.5°	592.4	566.3	598.9	537.5	491.0
35°	396.2	404.5	379.4	376.6	318.0
37.5°	247.4	284.6	251.1	267.8	204.6
40°	160.0	206.4	177.6	196.2	150.7
42.5°	131.1	159.0	146.0	155.3	133.9
45°	104.2	129.3	129.3	129.3	105.1
47.5°	57.7	86.5	110.7	88.3	61.4
50°	32.5	43.7	85.6	45.6	34.4
52.5°	22.3	25.1	58.6	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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