

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: P752220

Luminaire Tested: LD4D70BD010-EU4DR3070959027-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752220
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-EU4DR3070959027-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5872.2 lumens
Efficiency: N/A
Efficacy: 88.2 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

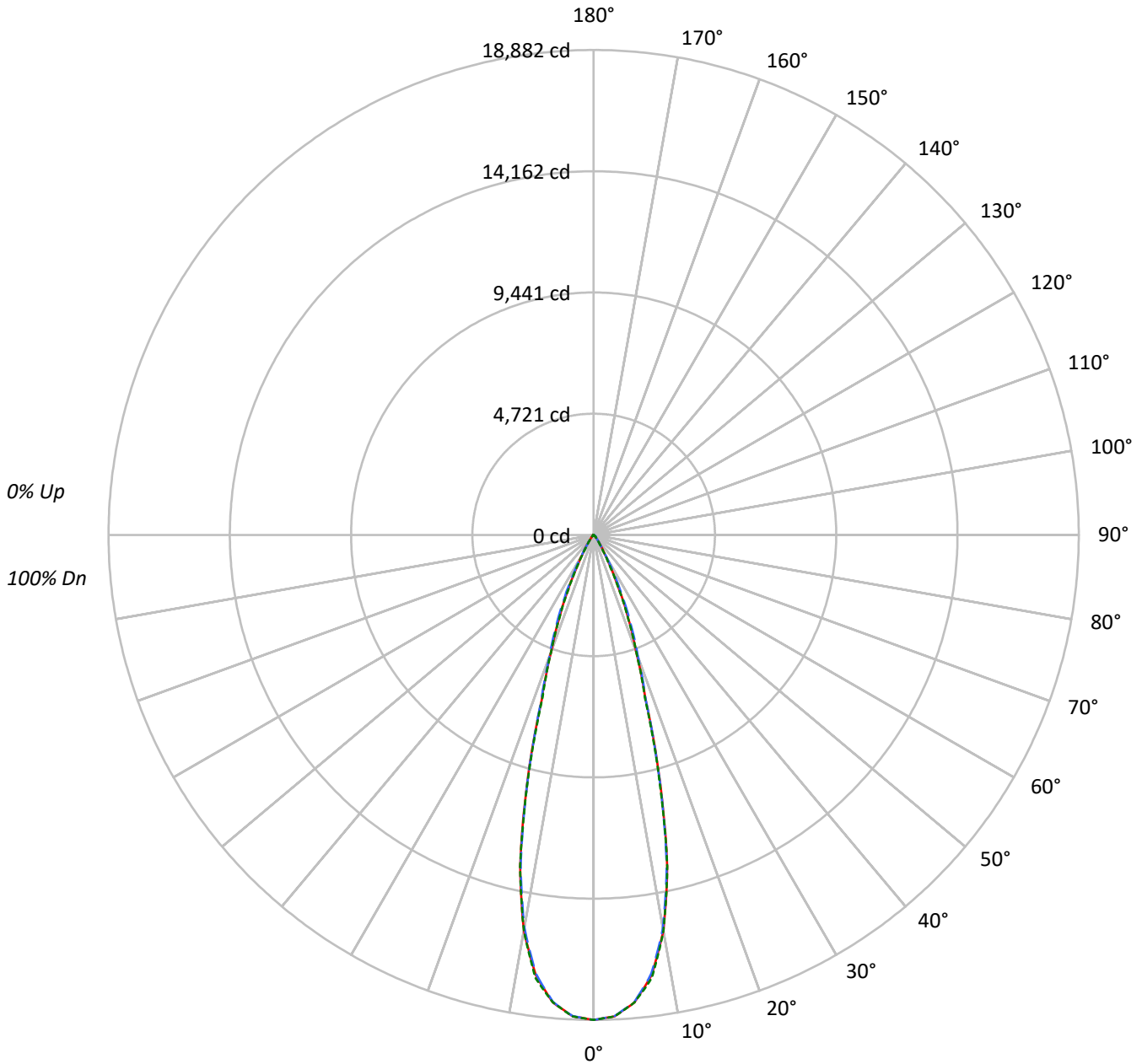
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1445292	1445292	1445292
5°	1403805	1402168	1403874
10°	1215910	1207337	1215622
15°	793323	789060	785090
20°	394482	409283	393953
25°	198709	224079	194638
30°	79564	86688	69320
35°	36900	35340	29621
40°	15937	17696	15008
45°	11236	13953	11344
50°	3858	10158	4084
55°	2229	4204	2349
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: 13953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1660.4	28.3
10°-20°	2674.1	45.5
20°-30°	1155.5	19.7
30°-40°	263.4	4.5
40°-50°	90.4	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°	5490.0	93.5
0°-40°	5753.4	98.0
0°-60°	5865.9	99.9
0°-90°	5872.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5872.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18882	18882	18882	18882	18882	
5°	18270	18253	18249	18287	18271	1662
15°	10011	9891	9957	9925	9907	2681
25°	2353	2442	2653	2380	2305	1126
35°	395	403	378	376	317	268
45°	104	129	129	129	105	74
55°	17	18	32	18	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18882.0	18882.0	18882.0	18882.0	18882.0
2.5°	18756.9	18743.9	18751.3	18760.6	18764.3
5°	18270.2	18252.6	18248.9	18286.9	18271.1
7.5°	17288.5	17263.4	17225.4	17311.6	17392.3
10°	15643.9	15616.1	15533.6	15574.4	15640.2
12.5°	13215.9	13126.0	13124.2	13254.0	13236.3
15°	10011.2	9890.6	9957.4	9924.9	9907.3
17.5°	6732.2	6685.8	6774.8	6748.0	6632.1
20°	4842.9	4854.9	5024.6	4939.3	4836.4
22.5°	3533.9	3577.5	3778.6	3558.9	3478.3
25°	2352.8	2441.8	2653.2	2379.7	2304.6
27.5°	1447.1	1487.9	1702.1	1428.6	1387.8
30°	900.2	879.8	980.8	841.8	784.3
32.5°	590.5	564.6	597.0	535.8	489.5
35°	394.9	403.3	378.2	375.5	317.0
37.5°	246.6	283.7	250.3	267.0	203.9
40°	159.5	205.8	177.1	195.6	150.2
42.5°	130.7	158.5	145.5	154.8	133.5
45°	103.8	128.9	128.9	128.9	104.8
47.5°	57.5	86.2	110.3	88.1	61.2
50°	32.4	43.6	85.3	45.4	34.3
52.5°	22.2	25.0	58.4	26.0	23.2
55°	16.7	17.6	31.5	18.5	17.6
57.5°	13.0	13.9	16.7	13.9	13.0
60°	10.2	10.2	12.1	11.1	10.2
62.5°	7.4	7.4	8.3	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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