

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: P752270

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752270
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-EU4DR3070959050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6443.9 lumens
Efficiency: N/A
Efficacy: 96.8 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

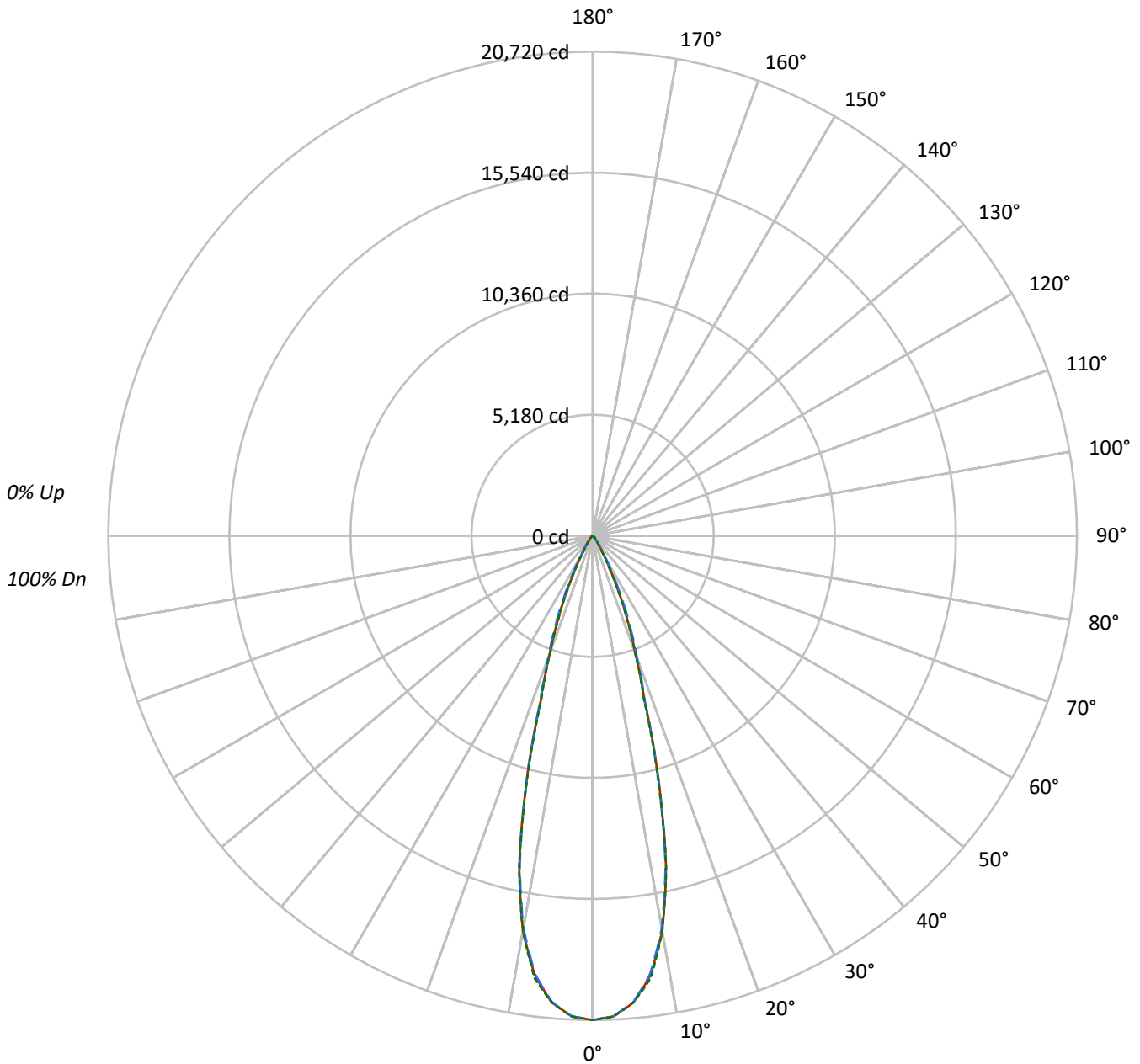
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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°	1586002	1586002	1586002
5°	1540473	1538675	1540550
10°	1334284	1324871	1333965
15°	870554	865878	861528
20°	432889	449123	432302
25°	218058	245894	213590
30°	87306	95128	76064
35°	40498	38788	32509
40°	17486	19415	16467
45°	12330	15306	12449
50°	4239	11146	4477
55°	2442	4617	2576
60°	1715	2021	1715
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15306 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1822.0	28.3
10°-20°	2934.4	45.5
20°-30°	1268.0	19.7
30°-40°	289.0	4.5
40°-50°	99.2	1.5
50°-60°	24.2	0.4
60°-70°	6.3	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°	6024.5	93.5
0°-40°	6313.5	98.0
0°-60°	6437.0	99.9
0°-90°	6443.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6443.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20720	20720	20720	20720	20720	
5°	20049	20030	20026	20067	20050	1824
15°	10986	10854	10927	10891	10872	2942
25°	2582	2680	2912	2611	2529	1236
35°	433	442	415	412	348	294
45°	114	141	141	141	115	81
55°	18	19	35	20	19	18
65°	6	6	6	6	6	6
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°	20720.3	20720.3	20720.3	20720.3	20720.3
2.5°	20583.0	20568.7	20576.9	20587.0	20591.1
5°	20048.9	20029.6	20025.5	20067.2	20049.9
7.5°	18971.6	18944.1	18902.4	18997.0	19085.5
10°	17166.9	17136.4	17045.8	17090.6	17162.8
12.5°	14502.6	14403.9	14401.9	14544.3	14525.0
15°	10985.8	10853.5	10926.8	10891.2	10871.9
17.5°	7387.6	7336.7	7434.4	7404.9	7277.7
20°	5314.4	5327.6	5513.7	5420.2	5307.2
22.5°	3877.9	3925.7	4146.5	3905.4	3816.9
25°	2581.9	2679.6	2911.5	2611.4	2529.0
27.5°	1588.0	1632.8	1867.8	1567.7	1522.9
30°	987.8	965.4	1076.3	923.7	860.6
32.5°	648.0	619.5	655.1	588.0	537.1
35°	433.4	442.5	415.1	412.0	347.9
37.5°	270.6	311.3	274.7	293.0	223.8
40°	175.0	225.8	194.3	214.6	164.8
42.5°	143.4	174.0	159.7	169.9	146.5
45°	113.9	141.4	141.4	141.4	115.0
47.5°	63.1	94.6	121.1	96.6	67.1
50°	35.6	47.8	93.6	49.8	37.6
52.5°	24.4	27.5	64.1	28.5	25.4
55°	18.3	19.3	34.6	20.3	19.3
57.5°	14.2	15.3	18.3	15.3	14.2
60°	11.2	11.2	13.2	12.2	11.2
62.5°	8.1	8.1	9.2	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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