

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: P753048

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753048
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-EU4DR3070959040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5623.5 lumens
Efficiency: N/A
Efficacy: 77.7 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')

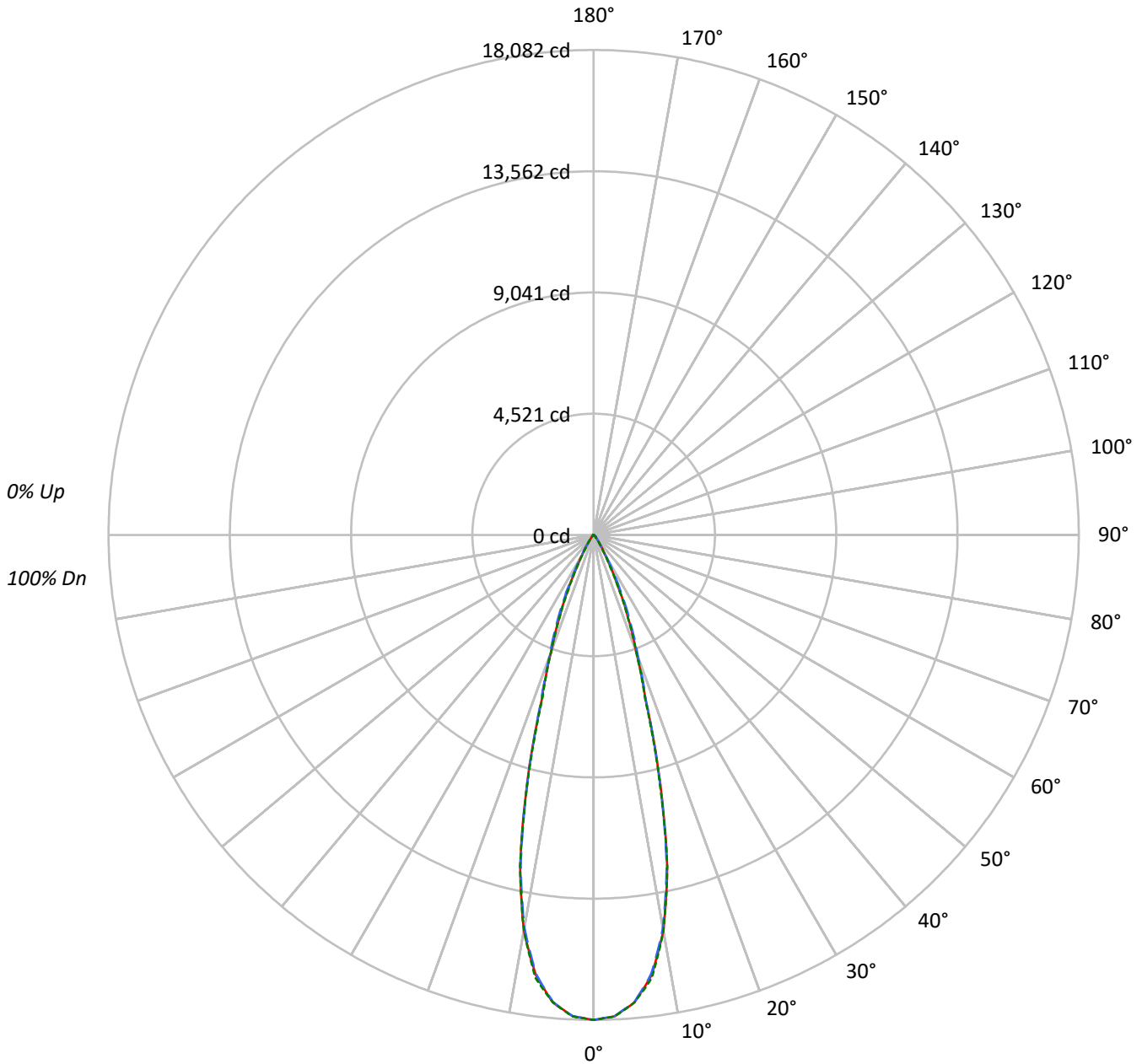
CIE Type: Direct

Input Watts (W): 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					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°	1384081	1384081	1384081
5°	1344350	1342774	1344411
10°	1164410	1156194	1164130
15°	759716	755635	751839
20°	377776	391949	377262
25°	190297	214587	186395
30°	76188	83020	66386
35°	35340	33845	28369
40°	15258	16946	14369
45°	10760	13358	10857
50°	3703	9729	3906
55°	2135	4030	2255
60°	1500	1760	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13358 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1590.1	28.3
10°-20°	2560.8	45.5
20°-30°	1106.6	19.7
30°-40°	252.2	4.5
40°-50°	86.6	1.5
50°-60°	21.2	0.4
60°-70°	5.5	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°	5257.5	93.5
0°-40°	5509.7	98.0
0°-60°	5617.4	99.9
0°-90°	5623.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5623.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18082	18082	18082	18082	18082	
5°	17496	17480	17476	17512	17497	1591
15°	9587	9472	9536	9505	9488	2567
25°	2253	2338	2541	2279	2207	1079
35°	378	386	362	360	304	257
45°	99	123	123	123	100	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	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°	18082.3	18082.3	18082.3	18082.3	18082.3
2.5°	17962.4	17950.0	17957.1	17966.0	17969.5
5°	17496.4	17479.5	17475.9	17512.3	17497.2
7.5°	16556.2	16532.2	16495.8	16578.4	16655.6
10°	14981.3	14954.6	14875.6	14914.7	14977.7
12.5°	12656.2	12570.1	12568.3	12692.6	12675.7
15°	9587.1	9471.7	9535.6	9504.6	9487.7
17.5°	6447.1	6402.7	6487.9	6462.1	6351.2
20°	4637.8	4649.3	4811.8	4730.1	4631.5
22.5°	3384.2	3425.9	3618.6	3408.2	3330.9
25°	2253.2	2338.4	2540.8	2278.9	2207.0
27.5°	1385.8	1424.9	1630.0	1368.1	1329.0
30°	862.0	842.5	939.3	806.1	751.1
32.5°	565.5	540.7	571.7	513.1	468.7
35°	378.2	386.2	362.2	359.6	303.6
37.5°	236.1	271.7	239.7	255.7	195.3
40°	152.7	197.1	169.6	187.3	143.8
42.5°	125.2	151.8	139.4	148.3	127.8
45°	99.4	123.4	123.4	123.4	100.3
47.5°	55.0	82.6	105.6	84.3	58.6
50°	31.1	41.7	81.7	43.5	32.8
52.5°	21.3	24.0	55.9	24.9	22.2
55°	16.0	16.9	30.2	17.8	16.9
57.5°	12.4	13.3	16.0	13.3	12.4
60°	9.8	9.8	11.5	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	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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