

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P753009

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753009
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-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5160.4 lumens
Efficiency: N/A
Efficacy: 71.3 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')

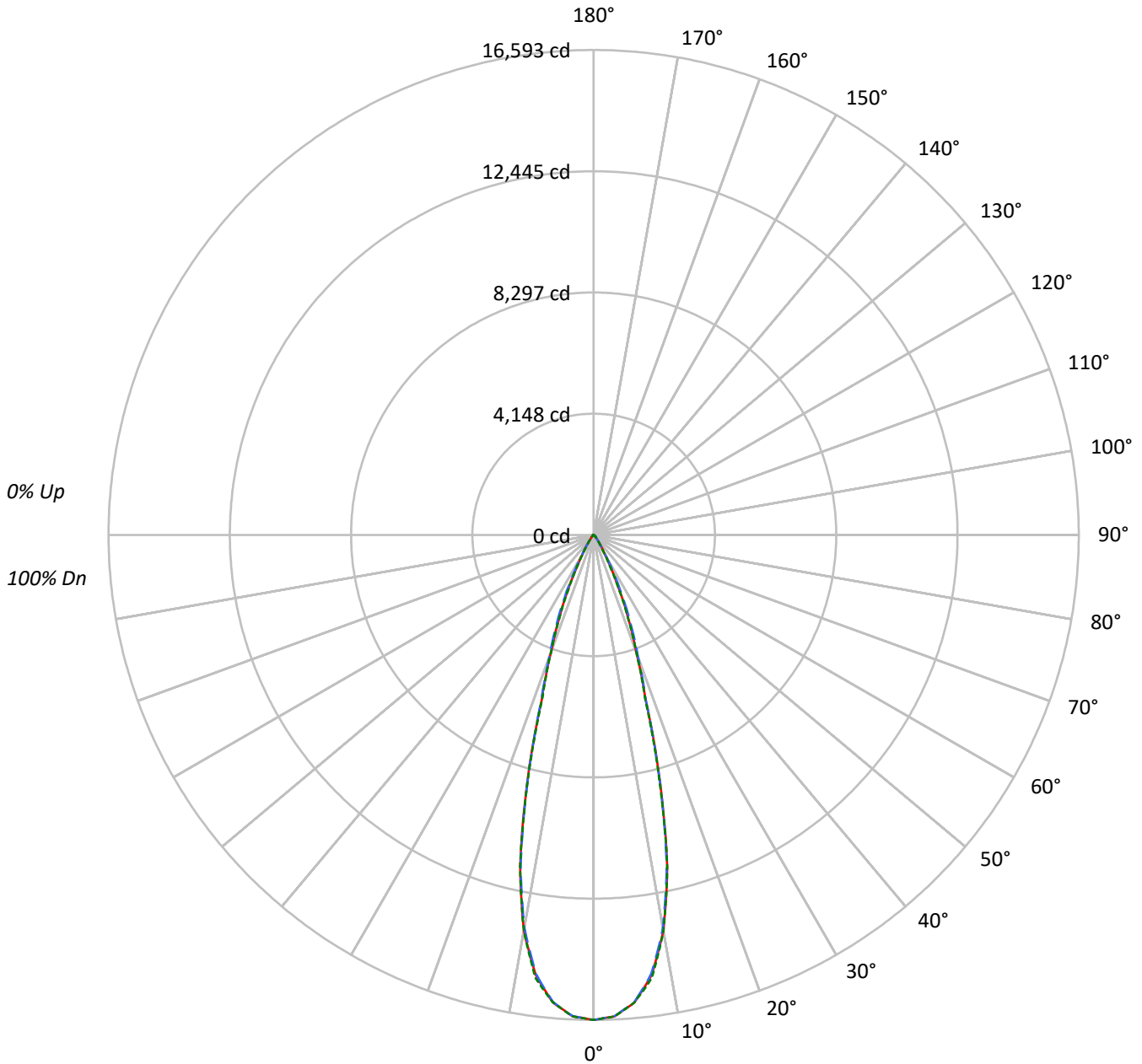
CIE Type: Direct

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°	1270100	1270100	1270100
5°	1233637	1232192	1233698
10°	1068513	1060982	1068265
15°	697153	693413	689926
20°	346660	359668	346195
25°	174622	196918	171049
30°	69912	76179	60915
35°	32424	31060	26033
40°	13999	15548	13189
45°	9872	12254	9970
50°	3394	8919	3584
55°	1962	3697	2068
60°	1378	1623	1378
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12254 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.1	28.3
10°-20°	2349.9	45.5
20°-30°	1015.5	19.7
30°-40°	231.4	4.5
40°-50°	79.5	1.5
50°-60°	19.4	0.4
60°-70°	5.0	0.1
70°-80°	0.5	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°	4824.5	93.5
0°-40°	5055.9	98.0
0°-60°	5154.8	99.9
0°-90°	5160.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5160.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16593	16593	16593	16593	16593	
5°	16056	16040	16037	16070	16056	1460
15°	8798	8692	8750	8722	8706	2356
25°	2068	2146	2332	2091	2025	990
35°	347	354	332	330	279	235
45°	91	113	113	113	92	65
55°	15	16	28	16	16	14
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°	16593.2	16593.2	16593.2	16593.2	16593.2
2.5°	16483.2	16471.8	16478.3	16486.4	16489.7
5°	16055.5	16040.0	16036.7	16070.1	16056.3
7.5°	15192.7	15170.8	15137.4	15213.1	15284.0
10°	13747.5	13723.1	13650.6	13686.4	13744.3
12.5°	11613.9	11534.9	11533.3	11647.3	11631.8
15°	8797.6	8691.7	8750.4	8721.8	8706.4
17.5°	5916.1	5875.4	5953.6	5930.0	5828.1
20°	4255.8	4266.4	4415.5	4340.6	4250.1
22.5°	3105.5	3143.8	3320.6	3127.5	3056.6
25°	2067.6	2145.8	2331.6	2091.3	2025.3
27.5°	1271.7	1307.5	1495.7	1255.4	1219.6
30°	791.0	773.1	861.9	739.7	689.2
32.5°	518.9	496.1	524.6	470.9	430.1
35°	347.0	354.4	332.4	329.9	278.6
37.5°	216.7	249.3	220.0	234.6	179.2
40°	140.1	180.9	155.6	171.9	132.0
42.5°	114.9	139.3	127.9	136.0	117.3
45°	91.2	113.2	113.2	113.2	92.1
47.5°	50.5	75.8	96.9	77.4	53.8
50°	28.5	38.3	74.9	39.9	30.1
52.5°	19.6	22.0	51.3	22.8	20.4
55°	14.7	15.5	27.7	16.3	15.5
57.5°	11.4	12.2	14.7	12.2	11.4
60°	9.0	9.0	10.6	9.8	9.0
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.3	3.3	3.3	3.3
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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