

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: P752282

Luminaire Tested: LD4D70BD010-EU4DR3070959050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752282
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-EU4DR3070959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5932.7 lumens
Efficiency: N/A
Efficacy: 89.1 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

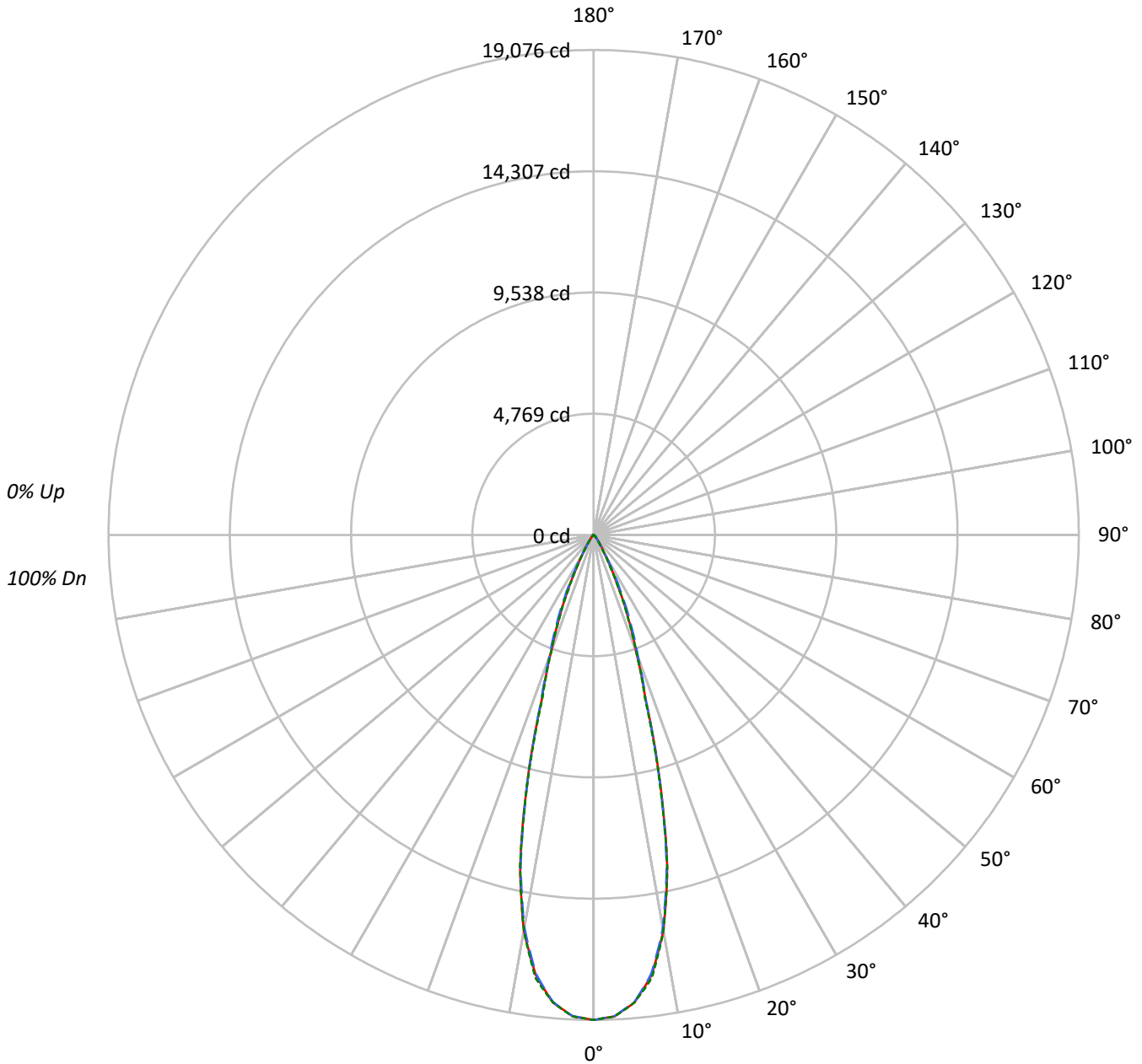
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1460180	1460180	1460180
5°	1418266	1416606	1418335
10°	1228431	1219765	1228136
15°	801493	797182	793180
20°	398547	413494	398009
25°	200761	226385	196648
30°	80377	87580	70036
35°	37283	35704	29930
40°	16097	17876	15158
45°	11355	14094	11453
50°	3906	10265	4132
55°	2255	4244	2375
60°	1577	1868	1577
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: 14094 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1677.5	28.3
10°-20°	2701.6	45.5
20°-30°	1167.4	19.7
30°-40°	266.1	4.5
40°-50°	91.4	1.5
50°-60°	22.3	0.4
60°-70°	5.8	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°	5546.5	93.5
0°-40°	5812.6	98.0
0°-60°	5926.3	99.9
0°-90°	5932.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5932.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19076	19076	19076	19076	19076	
5°	18458	18441	18437	18475	18459	1679
15°	10114	9992	10060	10027	10009	2708
25°	2377	2467	2680	2404	2328	1138
35°	399	407	382	379	320	271
45°	105	130	130	130	106	74
55°	17	18	32	19	18	16
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°	19076.5	19076.5	19076.5	19076.5	19076.5
2.5°	18950.1	18937.0	18944.4	18953.8	18957.6
5°	18458.4	18440.6	18436.8	18475.2	18459.3
7.5°	17466.5	17441.2	17402.8	17489.9	17571.4
10°	15805.0	15776.9	15693.5	15734.7	15801.2
12.5°	13352.1	13261.2	13259.3	13390.5	13372.7
15°	10114.3	9992.5	10059.9	10027.2	10009.4
17.5°	6801.5	6754.7	6844.6	6817.5	6700.4
20°	4892.8	4904.9	5076.3	4990.2	4886.2
22.5°	3570.3	3614.3	3817.5	3595.6	3514.1
25°	2377.1	2467.0	2680.5	2404.2	2328.4
27.5°	1462.0	1503.2	1719.6	1443.3	1402.1
30°	909.4	888.8	990.9	850.4	792.4
32.5°	596.6	570.4	603.2	541.4	494.5
35°	399.0	407.4	382.1	379.3	320.3
37.5°	249.1	286.6	252.9	269.7	206.1
40°	161.1	207.9	178.9	197.6	151.7
42.5°	132.1	160.2	147.0	156.4	134.9
45°	104.9	130.2	130.2	130.2	105.8
47.5°	58.1	87.1	111.5	89.0	61.8
50°	32.8	44.0	86.2	45.9	34.7
52.5°	22.5	25.3	59.0	26.2	23.4
55°	16.9	17.8	31.8	18.7	17.8
57.5°	13.1	14.0	16.9	14.0	13.1
60°	10.3	10.3	12.2	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
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

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Scaled Data Report





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

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