

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: P751501

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751501
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: LD4D65D010-EU4DR3055659050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5257.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

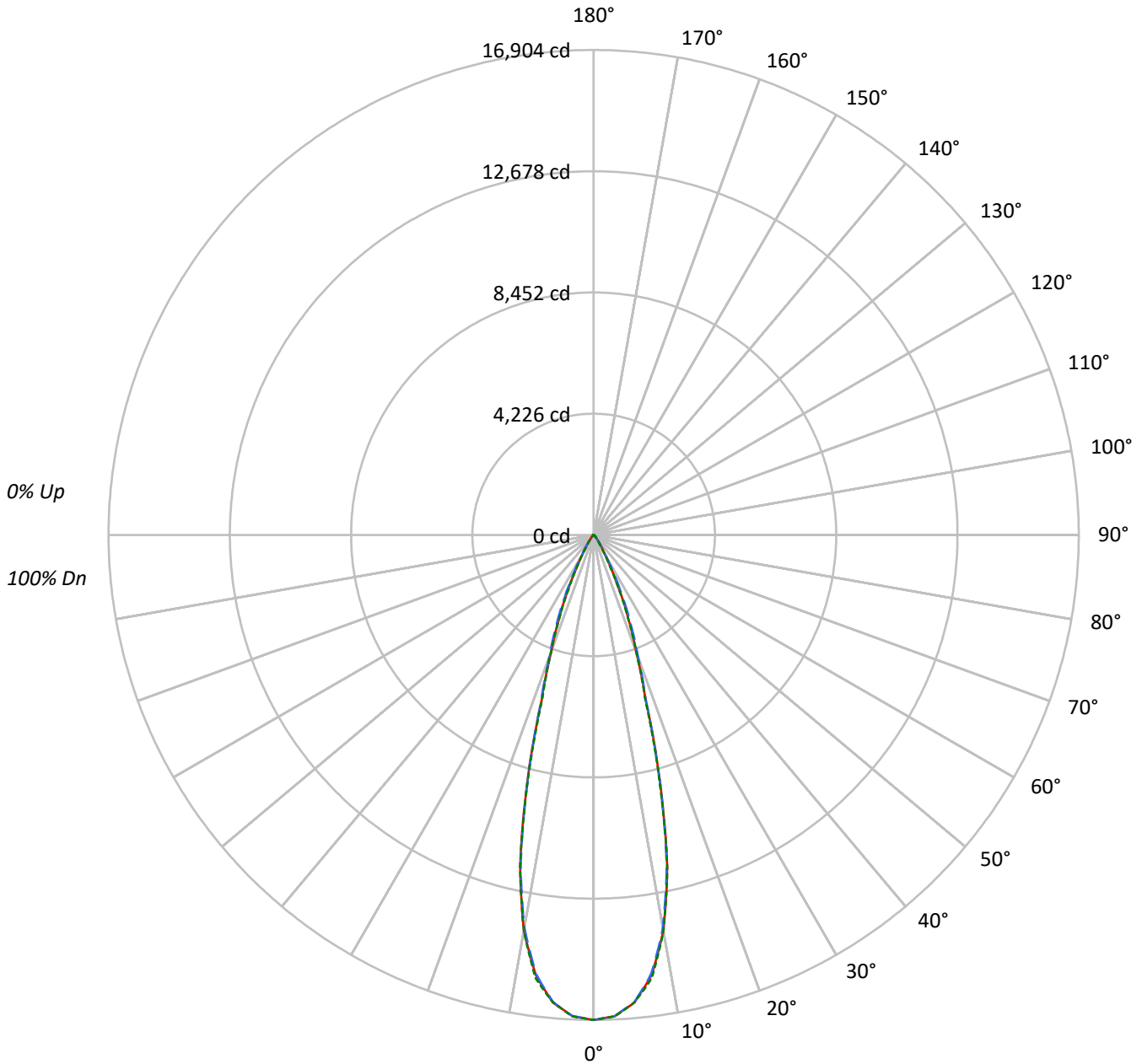
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1293882	1293882	1293882
5°	1256734	1255266	1256803
10°	1088527	1080848	1088263
15°	710205	706393	702843
20°	353152	366404	352679
25°	177890	200601	174250
30°	71229	77611	62055
35°	33032	31640	26519
40°	14259	15837	13429
45°	10067	12492	10154
50°	3453	9098	3656
55°	1988	3763	2108
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1486.4	28.3
10°-20°	2393.9	45.5
20°-30°	1034.5	19.7
30°-40°	235.8	4.5
40°-50°	81.0	1.5
50°-60°	19.8	0.4
60°-70°	5.1	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°	4914.8	93.5
0°-40°	5150.6	98.0
0°-60°	5251.4	99.9
0°-90°	5257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16904	16904	16904	16904	16904	
5°	16356	16340	16337	16371	16357	1488
15°	8962	8854	8914	8885	8869	2400
25°	2106	2186	2375	2130	2063	1008
35°	354	361	339	336	284	240
45°	93	115	115	115	94	66
55°	15	16	28	17	16	15
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°	16903.9	16903.9	16903.9	16903.9	16903.9
2.5°	16791.8	16780.2	16786.9	16795.2	16798.5
5°	16356.1	16340.4	16337.0	16371.1	16357.0
7.5°	15477.2	15454.8	15420.8	15498.0	15570.2
10°	14005.0	13980.1	13906.2	13942.7	14001.6
12.5°	11831.4	11750.9	11749.2	11865.4	11849.6
15°	8962.3	8854.5	8914.2	8885.2	8869.4
17.5°	6026.9	5985.4	6065.1	6041.0	5937.3
20°	4335.5	4346.3	4498.2	4421.8	4329.7
22.5°	3163.7	3202.7	3382.8	3186.1	3113.9
25°	2106.3	2186.0	2375.2	2130.4	2063.2
27.5°	1295.5	1332.0	1523.7	1278.9	1242.4
30°	805.9	787.6	878.1	753.6	702.1
32.5°	528.7	505.4	534.5	479.7	438.2
35°	353.5	361.0	338.6	336.1	283.8
37.5°	220.8	254.0	224.1	239.0	182.6
40°	142.7	184.2	158.5	175.1	134.4
42.5°	117.0	141.9	130.3	138.6	119.5
45°	93.0	115.4	115.4	115.4	93.8
47.5°	51.5	77.2	98.8	78.8	54.8
50°	29.0	39.0	76.4	40.7	30.7
52.5°	19.9	22.4	52.3	23.2	20.7
55°	14.9	15.8	28.2	16.6	15.8
57.5°	11.6	12.4	14.9	12.4	11.6
60°	9.1	9.1	10.8	10.0	9.1
62.5°	6.6	6.6	7.5	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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