

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: P749904

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749904
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: LD4D55D010-EU4DR3055659035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

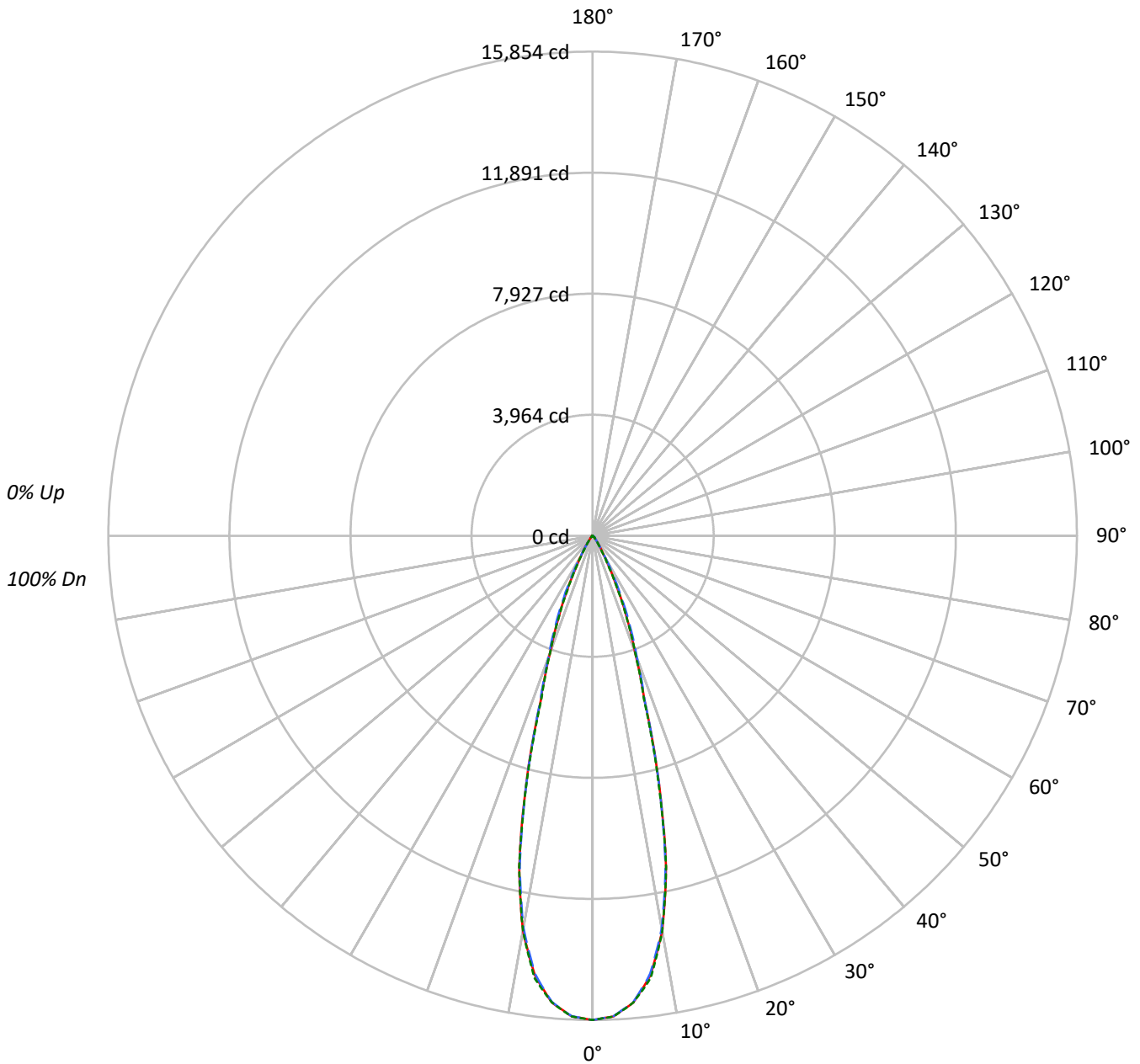
Lumens per Lamp: N/A
Luminaire Lumens: 4930.7 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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°	1213550	1213550	1213550
5°	1178715	1177339	1178776
10°	1020946	1013741	1020705
15°	666113	662540	659203
20°	331232	343654	330784
25°	166852	188152	163431
30°	66801	72785	58201
35°	30985	29677	24874
40°	13379	14858	12600
45°	9439	11713	9526
50°	3239	8526	3430
55°	1868	3536	1975
60°	1317	1546	1317
65°	851	851	851
70°	515	358	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11713 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1394.2	28.3
10°-20°	2245.3	45.5
20°-30°	970.3	19.7
30°-40°	221.1	4.5
40°-50°	75.9	1.5
50°-60°	18.6	0.4
60°-70°	4.8	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°	4609.7	93.5
0°-40°	4830.9	98.0
0°-60°	4925.3	99.9
0°-90°	4930.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4930.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15854	15854	15854	15854	15854	
5°	15341	15326	15323	15355	15342	1395
15°	8406	8305	8361	8334	8319	2251
25°	1976	2050	2228	1998	1935	946
35°	332	339	318	315	266	225
45°	87	108	108	108	88	62
55°	14	15	26	16	15	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°	15854.4	15854.4	15854.4	15854.4	15854.4
2.5°	15749.3	15738.4	15744.7	15752.4	15755.6
5°	15340.7	15325.9	15322.8	15354.7	15341.5
7.5°	14516.4	14495.3	14463.4	14535.8	14603.5
10°	13135.5	13112.1	13042.8	13077.1	13132.4
12.5°	11096.8	11021.3	11019.8	11128.8	11114.0
15°	8405.9	8304.7	8360.8	8333.5	8318.7
17.5°	5652.7	5613.8	5688.5	5666.0	5568.7
20°	4066.4	4076.5	4218.9	4147.3	4060.9
22.5°	2967.3	3003.8	3172.8	2988.3	2920.6
25°	1975.6	2050.3	2227.8	1998.1	1935.1
27.5°	1215.1	1249.3	1429.1	1199.5	1165.3
30°	755.8	738.7	823.5	706.8	658.5
32.5°	495.8	474.0	501.3	449.9	411.0
35°	331.6	338.6	317.6	315.3	266.2
37.5°	207.1	238.2	210.2	224.2	171.2
40°	133.9	172.8	148.7	164.2	126.1
42.5°	109.8	133.1	122.2	130.0	112.1
45°	87.2	108.2	108.2	108.2	88.0
47.5°	48.3	72.4	92.6	73.9	51.4
50°	27.2	36.6	71.6	38.1	28.8
52.5°	18.7	21.0	49.0	21.8	19.5
55°	14.0	14.8	26.5	15.6	14.8
57.5°	10.9	11.7	14.0	11.7	10.9
60°	8.6	8.6	10.1	9.3	8.6
62.5°	6.2	6.2	7.0	6.2	6.2
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.6	1.6	1.6	2.3
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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