

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: P749891

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749891
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-EU4DR3055659030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

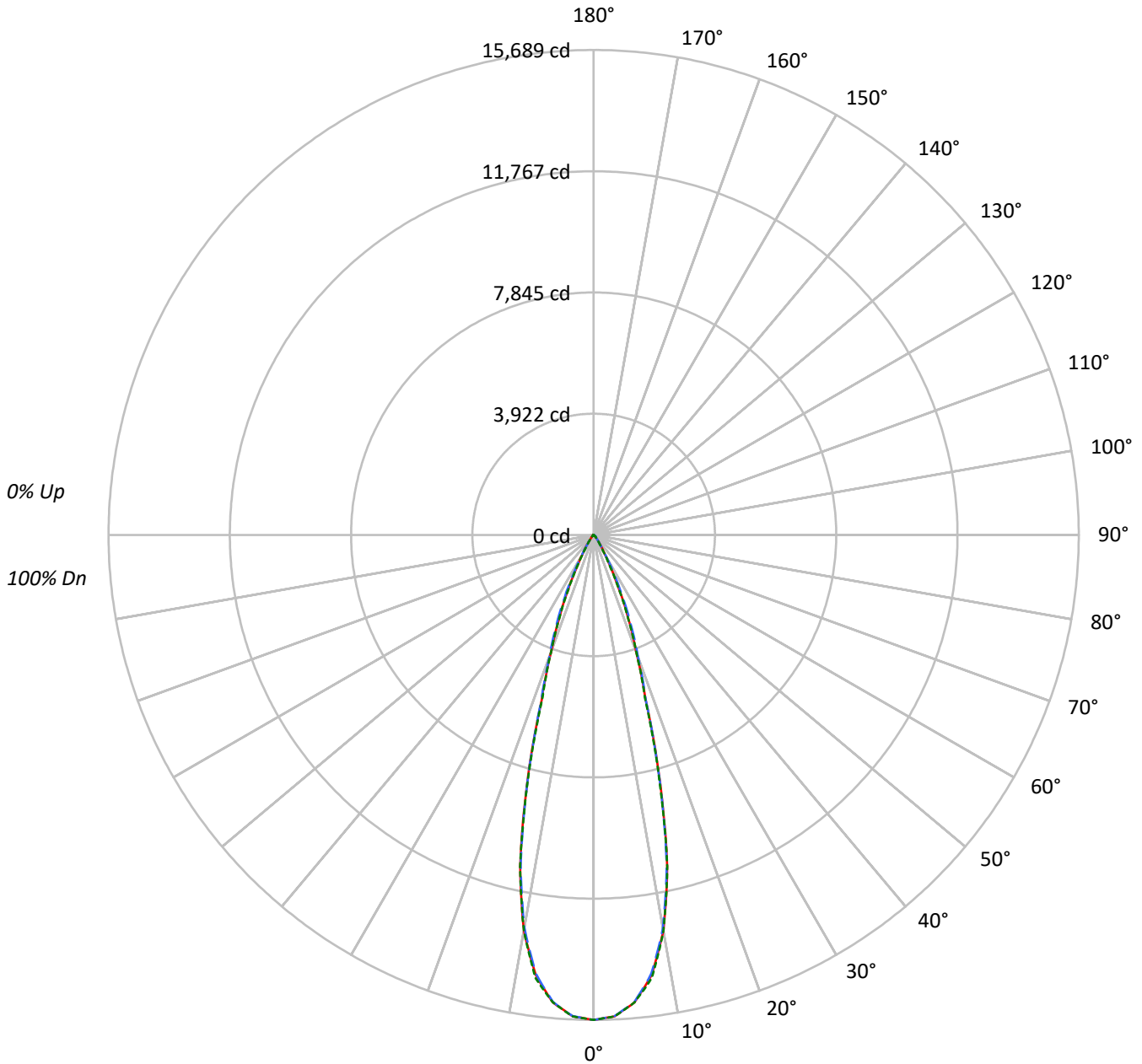
Lumens per Lamp: N/A
Luminaire Lumens: 4879.3 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	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°	1200905	1200905	1200905
5°	1166429	1165069	1166482
10°	1010306	1003178	1010065
15°	659172	655629	652333
20°	327778	340070	327338
25°	165112	186192	161725
30°	66103	72034	57600
35°	30658	29369	24613
40°	13239	14698	12470
45°	9342	11593	9418
50°	3215	8443	3394
55°	1855	3496	1948
60°	1301	1531	1301
65°	833	833	833
70°	515	336	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: 11593 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.6	28.3
10°-20°	2221.9	45.5
20°-30°	960.1	19.7
30°-40°	218.8	4.5
40°-50°	75.1	1.5
50°-60°	18.4	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°	4561.7	93.5
0°-40°	4780.5	98.0
0°-60°	4874.0	99.9
0°-90°	4879.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15689	15689	15689	15689	15689	
5°	15181	15166	15163	15195	15182	1381
15°	8318	8218	8274	8247	8232	2227
25°	1955	2029	2205	1977	1915	936
35°	328	335	314	312	263	223
45°	86	107	107	107	87	61
55°	14	15	26	15	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°	15689.2	15689.2	15689.2	15689.2	15689.2
2.5°	15585.2	15574.4	15580.5	15588.3	15591.3
5°	15180.8	15166.1	15163.1	15194.6	15181.5
7.5°	14365.0	14344.2	14312.7	14384.3	14451.3
10°	12998.6	12975.4	12906.9	12940.8	12995.5
12.5°	10981.2	10906.5	10904.9	11012.8	10998.1
15°	8318.3	8218.2	8273.6	8246.7	8232.0
17.5°	5593.8	5555.3	5629.2	5606.9	5510.6
20°	4024.0	4034.0	4174.9	4104.1	4018.6
22.5°	2936.3	2972.5	3139.7	2957.1	2890.1
25°	1955.0	2028.9	2204.6	1977.3	1914.9
27.5°	1202.4	1236.3	1414.2	1187.0	1153.1
30°	747.9	731.0	815.0	699.4	651.7
32.5°	490.7	469.1	496.1	445.2	406.7
35°	328.1	335.1	314.3	312.0	263.4
37.5°	204.9	235.7	208.0	221.8	169.5
40°	132.5	171.0	147.1	162.5	124.8
42.5°	108.6	131.7	120.9	128.6	110.9
45°	86.3	107.1	107.1	107.1	87.0
47.5°	47.8	71.6	91.7	73.2	50.8
50°	27.0	36.2	70.9	37.7	28.5
52.5°	18.5	20.8	48.5	21.6	19.3
55°	13.9	14.6	26.2	15.4	14.6
57.5°	10.8	11.6	13.9	11.6	10.8
60°	8.5	8.5	10.0	9.2	8.5
62.5°	6.2	6.2	6.9	6.2	6.2
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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

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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