

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: P749876

Luminaire Tested: LD4D55D010-EU4DR3055659024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749876
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-EU4DR3055659024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.8 lumens
Efficiency: N/A
Efficacy: 59.7 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

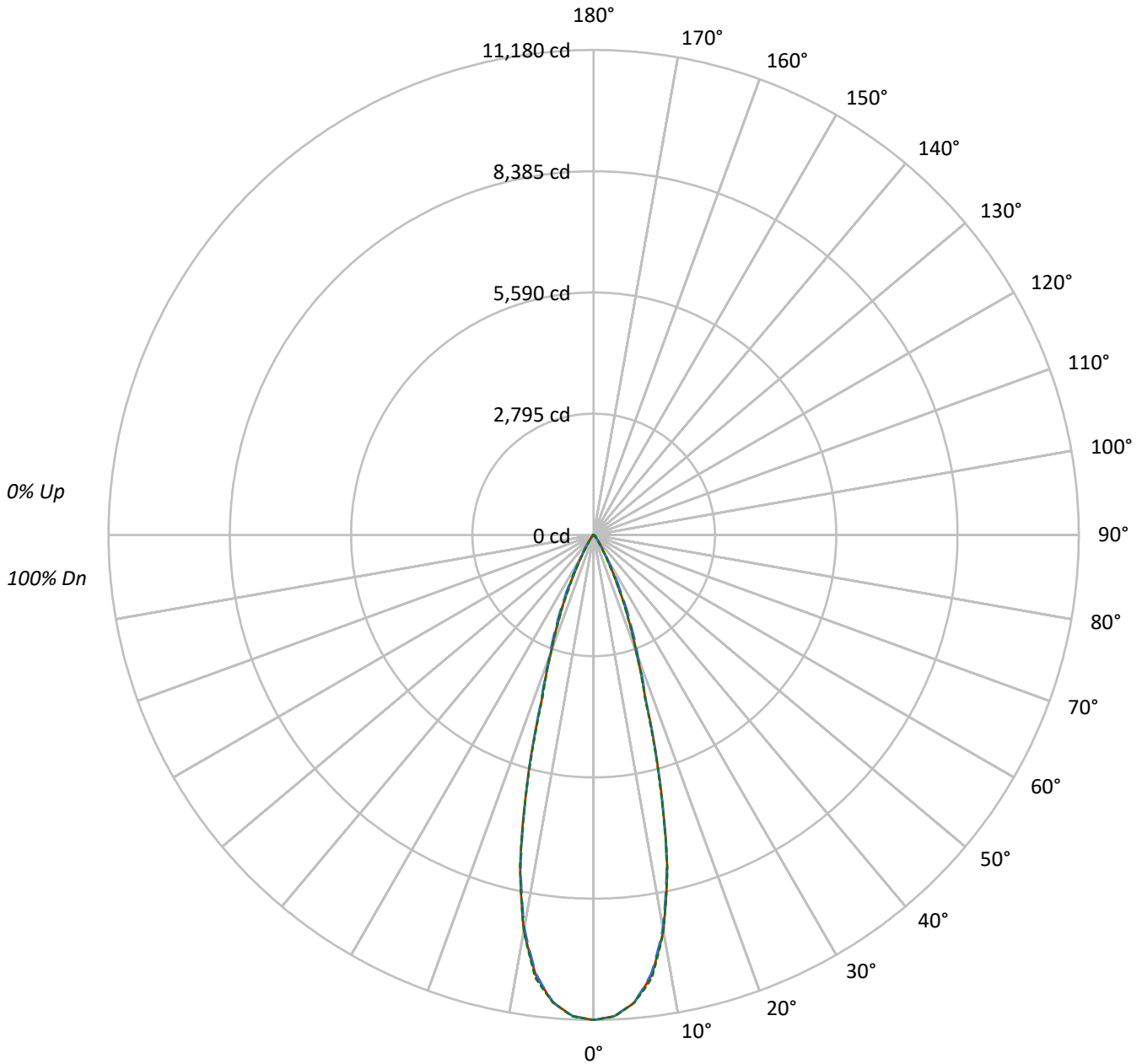
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	855725	855725	855725
5°	831156	830188	831202
10°	719913	714829	719742
15°	469708	467180	464835
20°	233566	242323	233249
25°	117656	132672	115241
30°	47109	51325	41046
35°	21847	20922	17539
40°	9432	10472	8883
45°	6657	8259	6711
50°	2286	6014	2417
55°	1321	2496	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.1	28.3
10°-20°	1583.3	45.5
20°-30°	684.2	19.7
30°-40°	155.9	4.5
40°-50°	53.5	1.5
50°-60°	13.1	0.4
60°-70°	3.4	0.1
70°-80°	0.3	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°	3250.5	93.5
0°-40°	3406.4	98.0
0°-60°	3473.1	99.9
0°-90°	3476.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11180	11180	11180	11180	11180	
5°	10817	10807	10805	10827	10818	984
15°	5927	5856	5896	5876	5866	1587
25°	1393	1446	1571	1409	1364	667
35°	234	239	224	222	188	159
45°	62	76	76	76	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	11179.6	11179.6	11179.6	11179.6	11179.6
2.5°	11105.5	11097.8	11102.2	11107.7	11109.9
5°	10817.3	10806.9	10804.7	10827.2	10817.9
7.5°	10236.1	10221.2	10198.7	10249.8	10297.5
10°	9262.4	9245.9	9197.0	9221.2	9260.2
12.5°	7824.8	7771.6	7770.5	7847.3	7836.9
15°	5927.4	5856.0	5895.5	5876.3	5865.9
17.5°	3986.0	3958.5	4011.2	3995.3	3926.7
20°	2867.4	2874.5	2974.9	2924.4	2863.5
22.5°	2092.3	2118.1	2237.2	2107.2	2059.4
25°	1393.1	1445.8	1570.9	1409.0	1364.5
27.5°	856.8	881.0	1007.7	845.8	821.7
30°	533.0	520.9	580.7	498.4	464.4
32.5°	349.6	334.3	353.5	317.3	289.8
35°	233.8	238.8	223.9	222.3	187.7
37.5°	146.0	168.0	148.2	158.1	120.8
40°	94.4	121.9	104.8	115.8	88.9
42.5°	77.4	93.9	86.2	91.7	79.0
45°	61.5	76.3	76.3	76.3	62.0
47.5°	34.0	51.0	65.3	52.1	36.2
50°	19.2	25.8	50.5	26.9	20.3
52.5°	13.2	14.8	34.6	15.4	13.7
55°	9.9	10.4	18.7	11.0	10.4
57.5°	7.7	8.2	9.9	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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