

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: P749878

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749878  
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-EU4DR3055659027-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

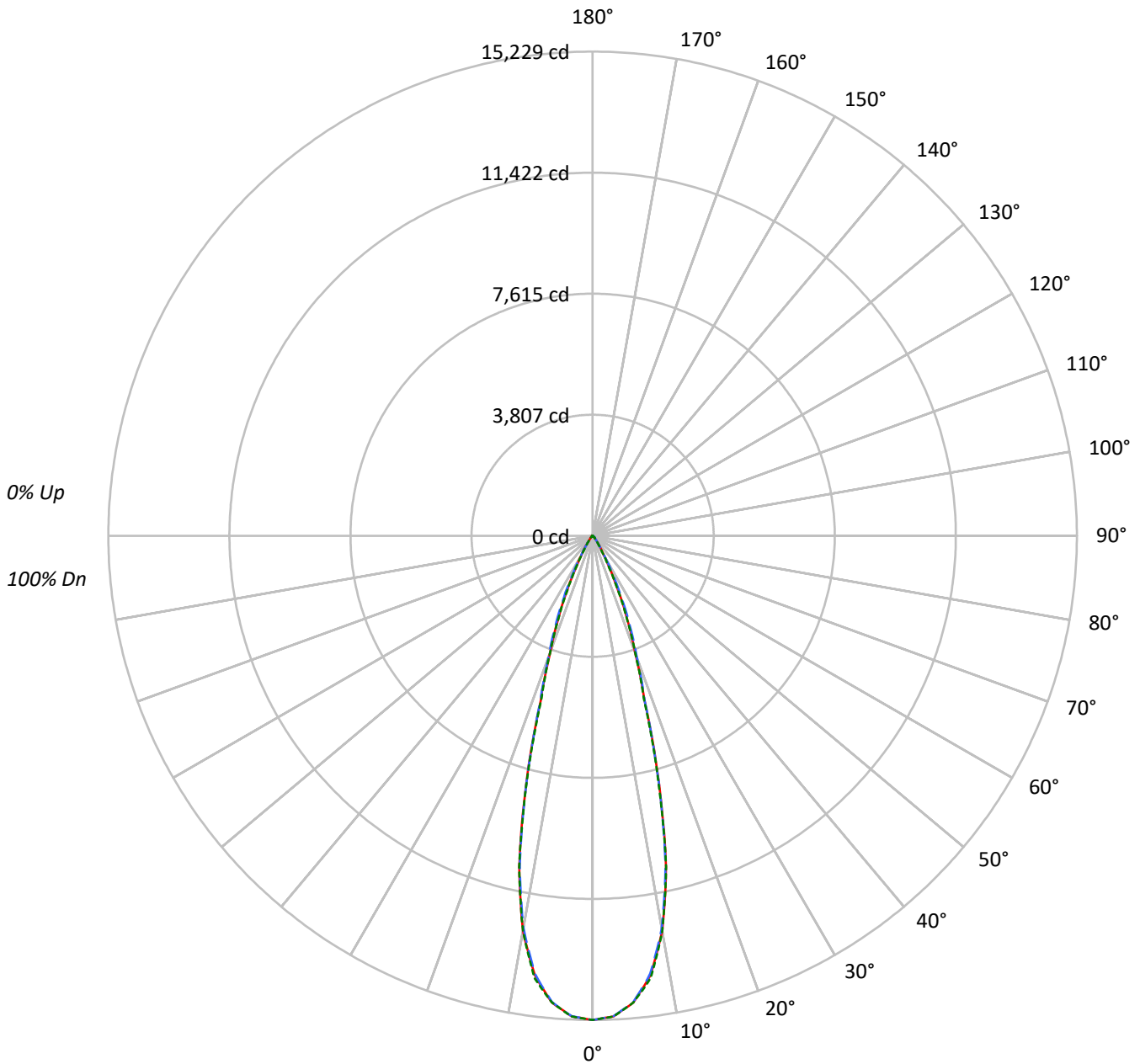
Lumens per Lamp: N/A  
Luminaire Lumens: 4736.1 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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°	1165672	1165672	1165672
5°	1132214	1130892	1132267
10°	980670	973752	980436
15°	639836	636397	633204
20°	318158	330100	317735
25°	160264	180728	156987
30°	64167	69921	55903
35°	29761	28509	23893
40°	12850	14269	12100
45°	9060	11247	9147
50°	3120	8193	3299
55°	1802	3390	1895
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11247 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1339.2	28.3
10°-20°	2156.7	45.5
20°-30°	932.0	19.7
30°-40°	212.4	4.5
40°-50°	72.9	1.5
50°-60°	17.8	0.4
60°-70°	4.6	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°	4427.9	93.5
0°-40°	4640.3	98.0
0°-60°	4731.0	99.9
0°-90°	4736.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15229	15229	15229	15229	15229	
5°	14736	14721	14718	14749	14736	1340
15°	8074	7977	8031	8005	7991	2162
25°	1898	1969	2140	1919	1859	908
35°	318	325	305	303	256	216
45°	84	104	104	104	84	59
55°	14	14	25	15	14	13
65°	4	4	4	4	4	4
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°	15228.9	15228.9	15228.9	15228.9	15228.9
2.5°	15128.0	15117.5	15123.5	15131.0	15134.0
5°	14735.5	14721.3	14718.3	14748.9	14736.2
7.5°	13943.7	13923.5	13892.8	13962.4	14027.4
10°	12617.3	12594.8	12528.3	12561.2	12614.3
12.5°	10659.1	10586.5	10585.0	10689.7	10675.5
15°	8074.3	7977.1	8030.9	8004.8	7990.6
17.5°	5429.7	5392.3	5464.1	5442.4	5349.0
20°	3905.9	3915.7	4052.5	3983.7	3900.7
22.5°	2850.2	2885.3	3047.6	2870.4	2805.3
25°	1897.6	1969.4	2139.9	1919.3	1858.8
27.5°	1167.1	1200.0	1372.8	1152.2	1119.3
30°	726.0	709.6	791.1	678.9	632.5
32.5°	476.3	455.3	481.5	432.2	394.8
35°	318.5	325.2	305.1	302.8	255.7
37.5°	198.9	228.8	201.9	215.3	164.5
40°	128.6	166.0	142.8	157.8	121.1
42.5°	105.4	127.9	117.4	124.9	107.7
45°	83.7	103.9	103.9	103.9	84.5
47.5°	46.4	69.5	89.0	71.0	49.3
50°	26.2	35.1	68.8	36.6	27.7
52.5°	17.9	20.2	47.1	20.9	18.7
55°	13.5	14.2	25.4	15.0	14.2
57.5°	10.5	11.2	13.5	11.2	10.5
60°	8.2	8.2	9.7	9.0	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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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