

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: P750721

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750721  
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: LD4D60D010-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: 4753.3 lumens  
Efficiency: N/A  
Efficacy: 73.8 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

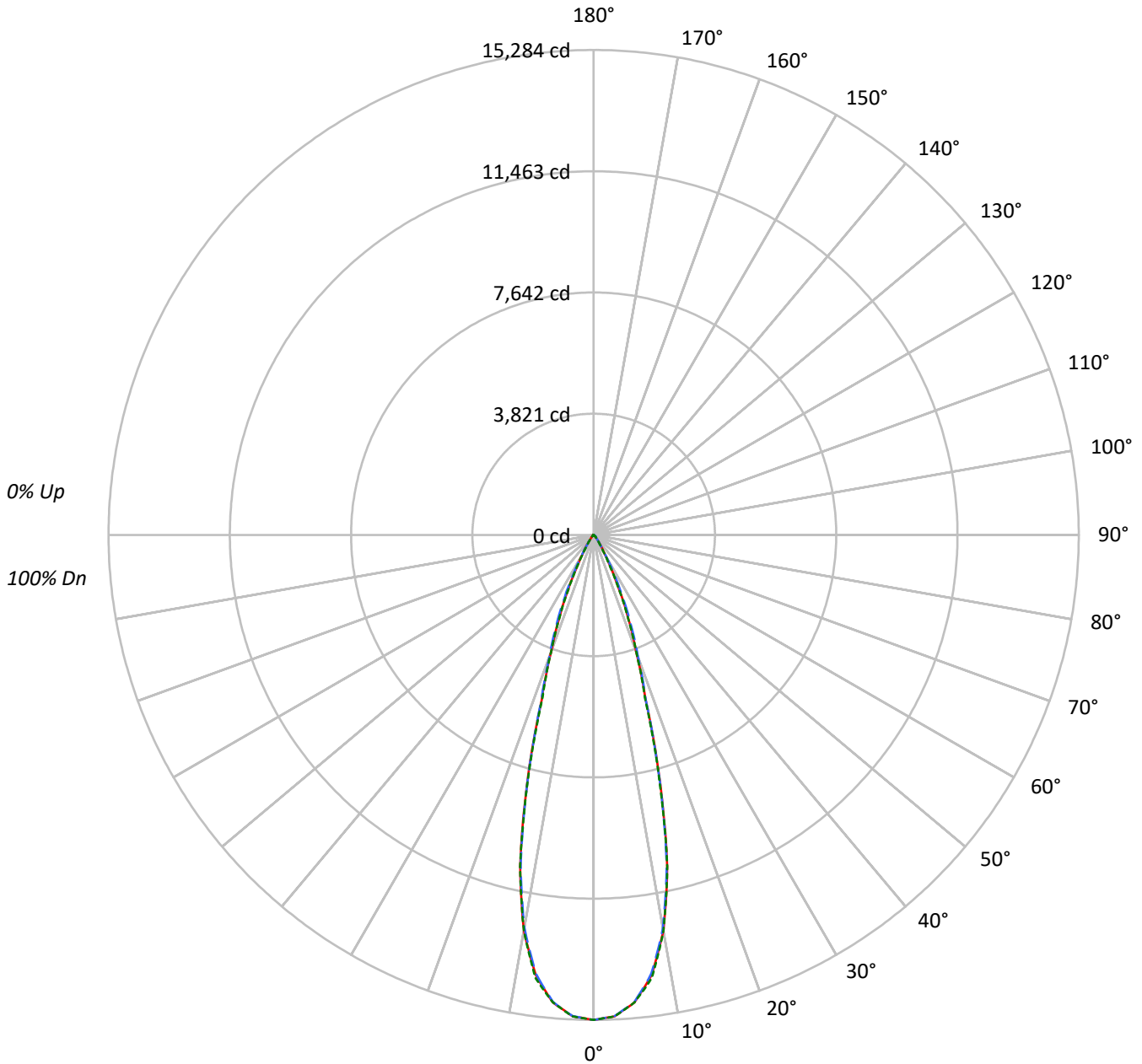
Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1169889	1169889	1169889
5°	1136309	1134980	1136363
10°	984214	977273	983981
15°	642150	638703	635494
20°	319315	331289	318883
25°	160847	181378	157553
30°	64397	70169	56107
35°	29873	28612	23977
40°	12900	14319	12150
45°	9093	11290	9179
50°	3132	8217	3310
55°	1802	3403	1908
60°	1271	1500	1271
65°	815	815	815
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: 11290 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1344.0	28.3
10°-20°	2164.5	45.5
20°-30°	935.3	19.7
30°-40°	213.2	4.5
40°-50°	73.2	1.5
50°-60°	17.9	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°	4443.9	93.5
0°-40°	4657.1	98.0
0°-60°	4748.1	99.9
0°-90°	4753.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4753.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15284	15284	15284	15284	15284	
5°	14789	14774	14772	14802	14790	1345
15°	8104	8006	8060	8034	8020	2170
25°	1904	1976	2148	1926	1866	912
35°	320	326	306	304	257	217
45°	84	104	104	104	85	60
55°	14	14	26	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°	15284.0	15284.0	15284.0	15284.0	15284.0
2.5°	15182.7	15172.2	15178.2	15185.7	15188.7
5°	14788.8	14774.5	14771.5	14802.3	14789.5
7.5°	13994.1	13973.8	13943.1	14012.9	14078.2
10°	12662.9	12640.4	12573.6	12606.6	12659.9
12.5°	10697.6	10624.8	10623.3	10728.4	10714.1
15°	8103.5	8006.0	8060.0	8033.7	8019.5
17.5°	5449.4	5411.8	5483.9	5462.1	5368.3
20°	3920.1	3929.8	4067.1	3998.1	3914.8
22.5°	2860.5	2895.8	3058.6	2880.8	2815.5
25°	1904.5	1976.5	2147.6	1926.3	1865.5
27.5°	1171.4	1204.4	1377.7	1156.4	1123.3
30°	728.6	712.1	793.9	681.4	634.8
32.5°	478.0	457.0	483.3	433.7	396.2
35°	319.7	326.4	306.2	303.9	256.6
37.5°	199.6	229.6	202.6	216.1	165.1
40°	129.1	166.6	143.3	158.3	121.6
42.5°	105.8	128.3	117.8	125.3	108.1
45°	84.0	104.3	104.3	104.3	84.8
47.5°	46.5	69.8	89.3	71.3	49.5
50°	26.3	35.3	69.0	36.8	27.8
52.5°	18.0	20.3	47.3	21.0	18.8
55°	13.5	14.3	25.5	15.0	14.3
57.5°	10.5	11.3	13.5	11.3	10.5
60°	8.3	8.3	9.8	9.0	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
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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