

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: P750722

Luminaire Tested: LD4D60D010-EU4DR3055659050-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750722  
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-EU4DR3055659050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5262.5 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

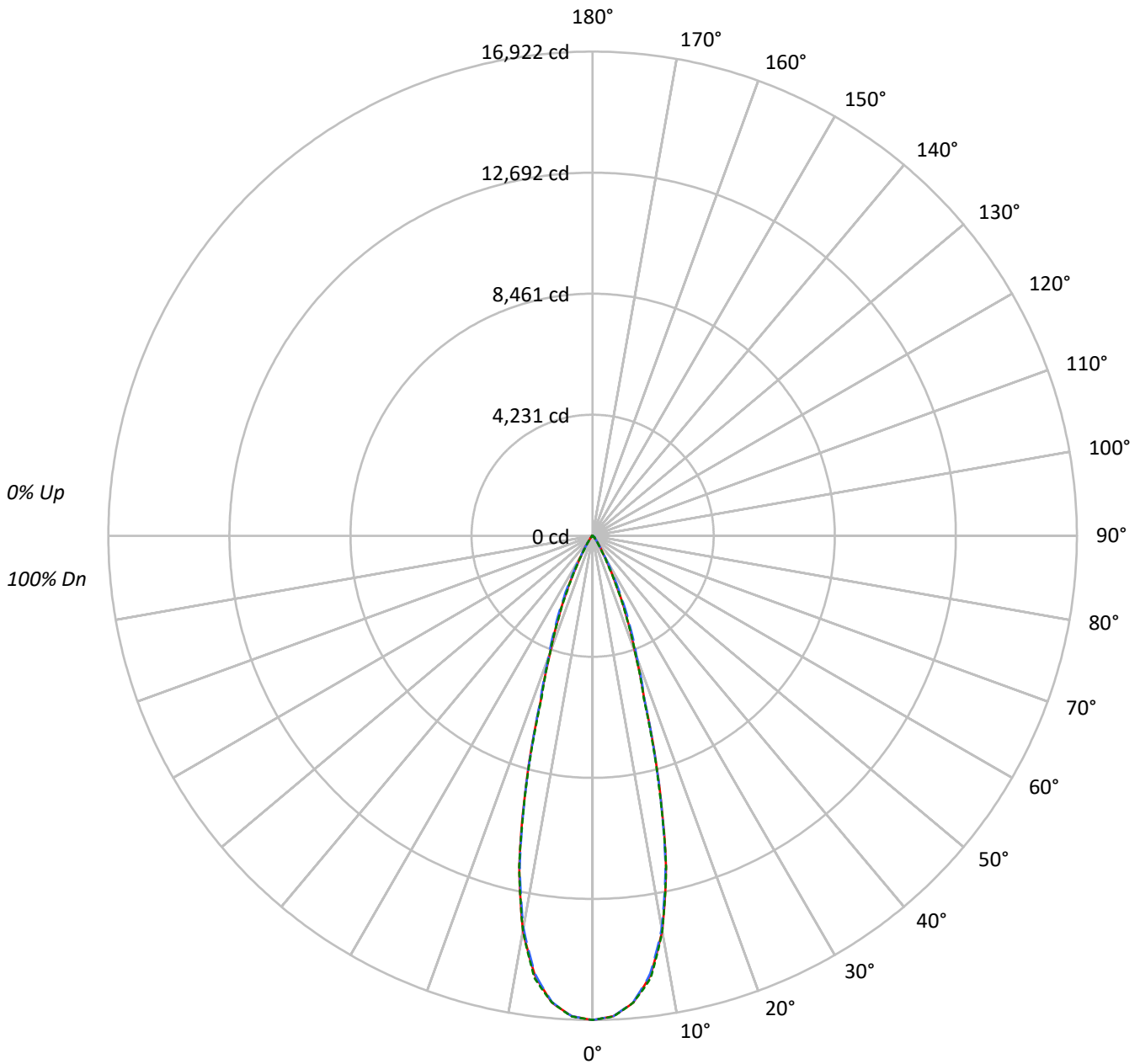
Input Watts (W): 64.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	1295229	1295229	1295229
5°	1258048	1256580	1258109
10°	1089662	1081975	1089398
15°	710949	707130	703572
20°	353518	366787	353046
25°	178076	200812	174428
30°	71300	77690	62117
35°	33069	31677	26547
40°	14279	15857	13449
45°	10067	12503	10165
50°	3465	9098	3656
55°	2002	3763	2108
60°	1393	1653	1393
65°	906	906	906
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12503 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1488.0	28.3
10°-20°	2396.4	45.5
20°-30°	1035.6	19.7
30°-40°	236.0	4.5
40°-50°	81.0	1.5
50°-60°	19.8	0.4
60°-70°	5.1	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°	4920.0	93.5
0°-40°	5156.0	98.0
0°-60°	5256.8	99.9
0°-90°	5262.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5262.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16922	16922	16922	16922	16922	
5°	16373	16357	16354	16388	16374	1489
15°	8972	8864	8924	8894	8879	2402
25°	2108	2188	2378	2133	2065	1009
35°	354	361	339	336	284	240
45°	93	116	116	116	94	66
55°	15	16	28	17	16	15
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°	16921.5	16921.5	16921.5	16921.5	16921.5
2.5°	16809.4	16797.7	16804.4	16812.7	16816.0
5°	16373.2	16357.4	16354.1	16388.1	16374.0
7.5°	15493.4	15471.0	15436.9	15514.2	15586.4
10°	14019.6	13994.6	13920.7	13957.3	14016.2
12.5°	11843.7	11763.1	11761.5	11877.8	11862.0
15°	8971.7	8863.7	8923.5	8894.4	8878.6
17.5°	6033.2	5991.7	6071.4	6047.3	5943.5
20°	4340.0	4350.8	4502.9	4426.4	4334.2
22.5°	3167.0	3206.0	3386.3	3189.4	3117.1
25°	2108.5	2188.3	2377.7	2132.6	2065.3
27.5°	1296.9	1333.4	1525.3	1280.2	1243.7
30°	806.7	788.4	879.0	754.4	702.8
32.5°	529.2	506.0	535.0	480.2	438.7
35°	353.9	361.4	339.0	336.5	284.1
37.5°	221.0	254.2	224.3	239.3	182.8
40°	142.9	184.4	158.7	175.3	134.6
42.5°	117.1	142.1	130.4	138.7	119.6
45°	93.0	115.5	115.5	115.5	93.9
47.5°	51.5	77.3	98.9	78.9	54.8
50°	29.1	39.0	76.4	40.7	30.7
52.5°	19.9	22.4	52.3	23.3	20.8
55°	15.0	15.8	28.2	16.6	15.8
57.5°	11.6	12.5	15.0	12.5	11.6
60°	9.1	9.1	10.8	10.0	9.1
62.5°	6.6	6.6	7.5	6.6	6.6
65°	5.0	5.0	5.0	5.0	5.0
67.5°	2.5	3.3	3.3	3.3	3.3
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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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