

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: P748333

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748333  
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: LD4D45BD010-EU4DR3040509030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3675.3 lumens  
Efficiency: N/A  
Efficacy: 95.0 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

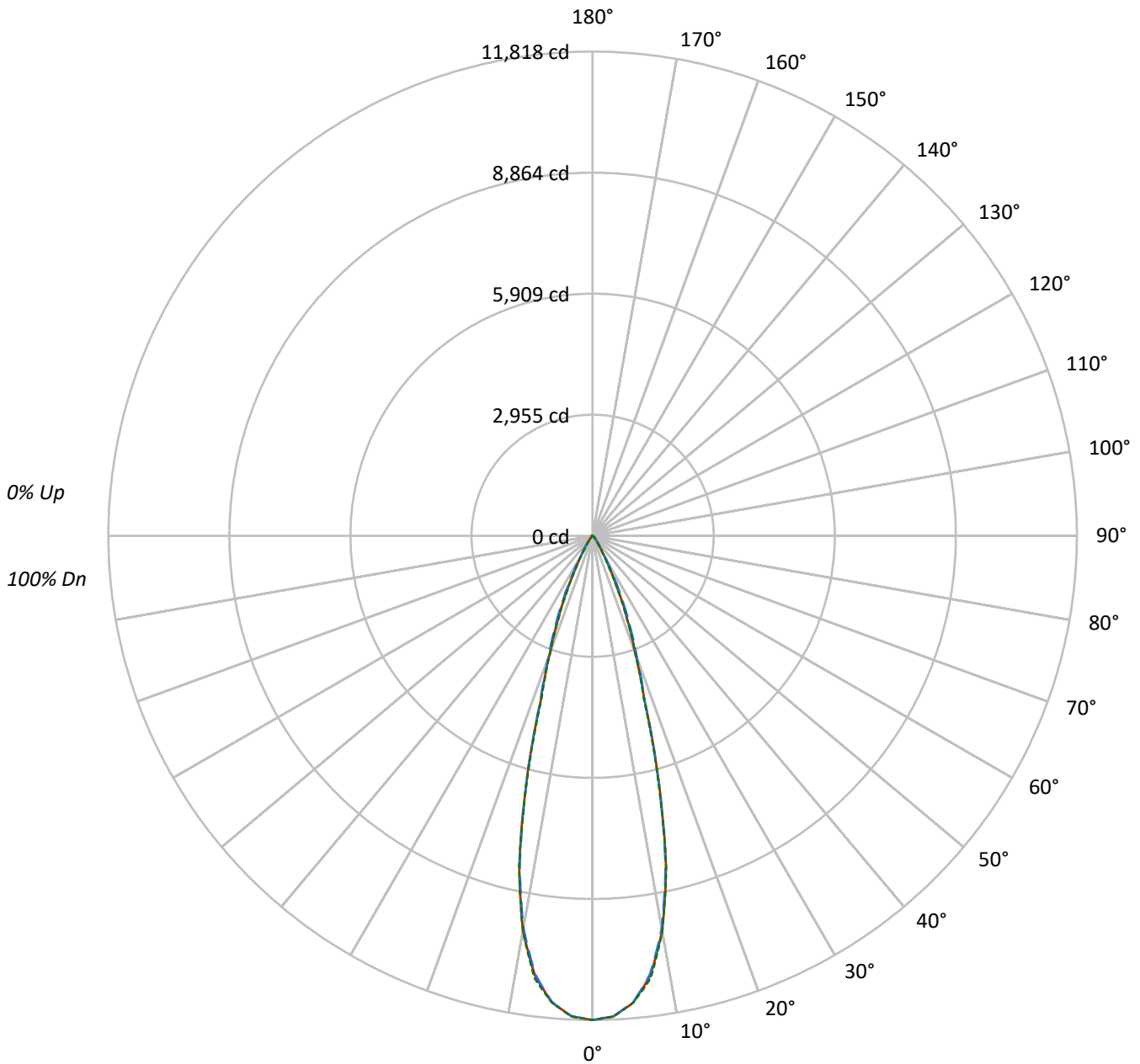
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	904582	904582	904582
5°	878617	877588	878656
10°	761013	755650	760834
15°	496524	493854	491373
20°	246901	256162	246567
25°	124370	140248	121820
30°	49796	54259	43388
35°	23099	22118	18539
40°	9972	11071	9393
45°	7036	8736	7101
50°	2417	6359	2560
55°	1388	2629	1468
60°	980	1148	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8736 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1039.2	28.3
10°-20°	1673.7	45.5
20°-30°	723.2	19.7
30°-40°	164.8	4.5
40°-50°	56.6	1.5
50°-60°	13.8	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3436.1	93.5
0°-40°	3600.9	98.0
0°-60°	3671.4	99.9
0°-90°	3675.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11818	11818	11818	11818	11818	
5°	11435	11424	11422	11445	11436	1040
15°	6266	6190	6232	6212	6201	1678
25°	1473	1528	1661	1489	1442	705
35°	247	252	237	235	198	168
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
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°	11817.9	11817.9	11817.9	11817.9	11817.9
2.5°	11739.6	11731.5	11736.1	11741.9	11744.2
5°	11435.0	11423.9	11421.6	11445.4	11435.5
7.5°	10820.5	10804.8	10781.1	10835.0	10885.5
10°	9791.2	9773.8	9722.2	9747.7	9788.9
12.5°	8271.6	8215.3	8214.2	8295.4	8284.4
15°	6265.8	6190.4	6232.1	6211.8	6200.8
17.5°	4213.6	4184.5	4240.2	4223.4	4150.9
20°	3031.1	3038.6	3144.8	3091.4	3027.0
22.5°	2211.8	2239.1	2365.0	2227.5	2177.0
25°	1472.6	1528.3	1660.6	1489.4	1442.4
27.5°	905.7	931.3	1065.3	894.1	868.6
30°	563.4	550.6	613.9	526.8	490.9
32.5°	369.6	353.4	373.7	335.4	306.4
35°	247.2	252.4	236.7	235.0	198.4
37.5°	154.3	177.5	156.7	167.1	127.6
40°	99.8	128.8	110.8	122.4	94.0
42.5°	81.8	99.2	91.1	96.9	83.6
45°	65.0	80.7	80.7	80.7	65.6
47.5°	36.0	54.0	69.0	55.1	38.3
50°	20.3	27.3	53.4	28.4	21.5
52.5°	13.9	15.7	36.6	16.2	14.5
55°	10.4	11.0	19.7	11.6	11.0
57.5°	8.1	8.7	10.4	8.7	8.1
60°	6.4	6.4	7.5	7.0	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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