

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: P748305

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748305  
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-EU4DR3040509024-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

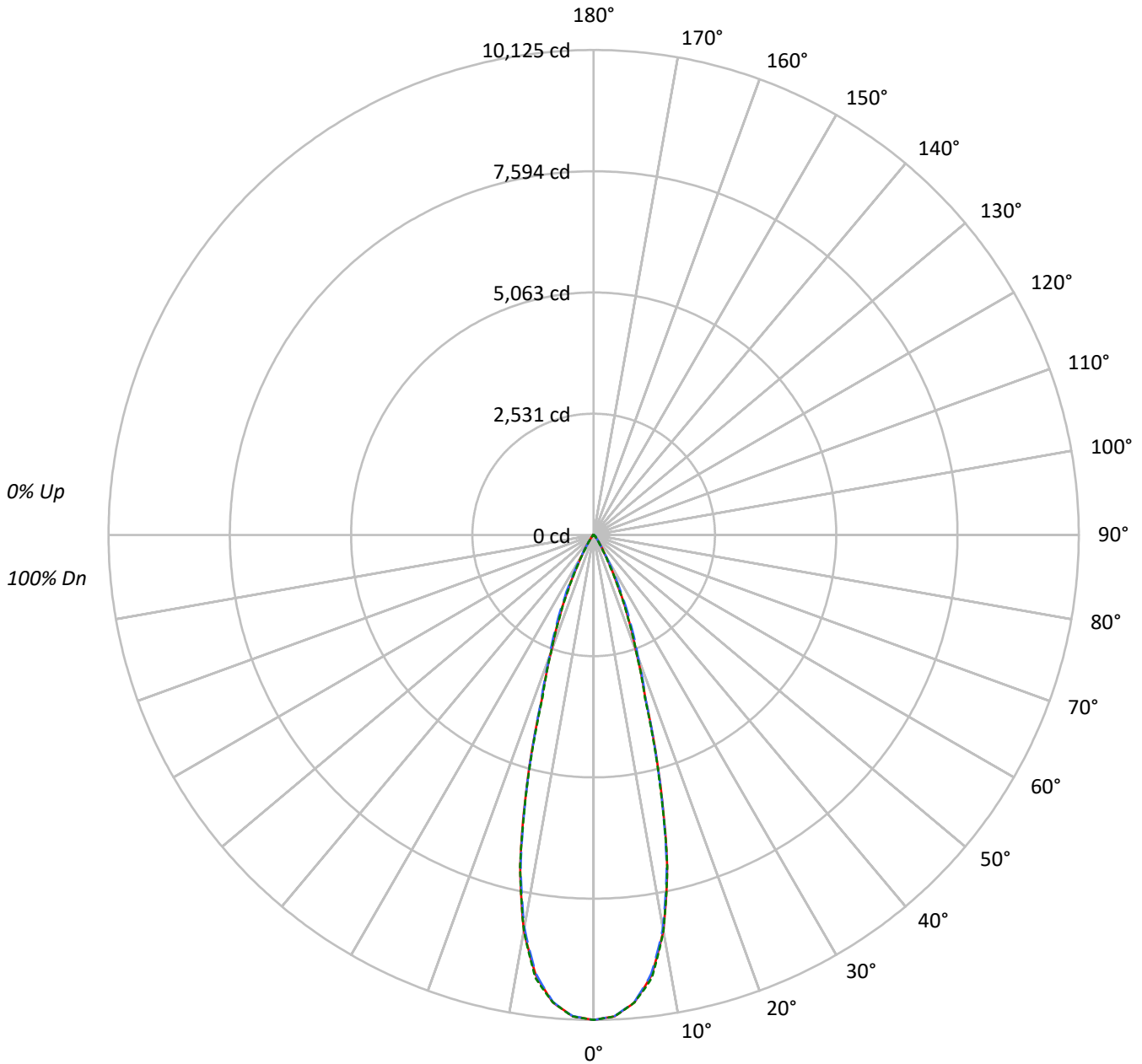
Lumens per Lamp: N/A  
Luminaire Lumens: 3148.8 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	775002	775002	775002
5°	752752	751877	752791
10°	651997	647404	651850
15°	425395	423113	420989
20°	211533	219466	211247
25°	106559	120156	104371
30°	42663	46482	37175
35°	19791	18950	15885
40°	8543	9482	8044
45°	6029	7480	6084
50°	2072	5442	2191
55°	1188	2255	1254
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7480 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	890.3	28.3
10°-20°	1433.9	45.5
20°-30°	619.6	19.7
30°-40°	141.2	4.5
40°-50°	48.5	1.5
50°-60°	11.8	0.4
60°-70°	3.1	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°	2943.9	93.5
0°-40°	3085.1	98.0
0°-60°	3145.4	99.9
0°-90°	3148.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10125	10125	10125	10125	10125	
5°	9797	9788	9786	9806	9797	891
15°	5368	5304	5339	5322	5313	1437
25°	1262	1309	1423	1276	1236	604
35°	212	216	203	201	170	144
45°	56	69	69	69	56	40
55°	9	9	17	10	9	9
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°	10125.0	10125.0	10125.0	10125.0	10125.0
2.5°	10057.9	10051.0	10054.9	10059.9	10061.9
5°	9796.9	9787.5	9785.5	9805.9	9797.4
7.5°	9270.5	9257.1	9236.7	9282.9	9326.2
10°	8388.6	8373.7	8329.5	8351.4	8386.7
12.5°	7086.7	7038.5	7037.5	7107.1	7097.7
15°	5368.2	5303.6	5339.4	5322.0	5312.6
17.5°	3610.0	3585.1	3632.8	3618.4	3556.3
20°	2596.9	2603.3	2694.3	2648.6	2593.4
22.5°	1895.0	1918.3	2026.2	1908.4	1865.1
25°	1261.7	1309.4	1422.7	1276.1	1235.8
27.5°	776.0	797.9	912.7	766.0	744.2
30°	482.7	471.8	525.9	451.4	420.6
32.5°	316.7	302.7	320.1	287.3	262.5
35°	211.8	216.2	202.8	201.3	170.0
37.5°	132.2	152.1	134.2	143.2	109.4
40°	85.5	110.4	94.9	104.9	80.5
42.5°	70.1	85.0	78.0	83.0	71.6
45°	55.7	69.1	69.1	69.1	56.2
47.5°	30.8	46.2	59.2	47.2	32.8
50°	17.4	23.4	45.7	24.4	18.4
52.5°	11.9	13.4	31.3	13.9	12.4
55°	8.9	9.4	16.9	9.9	9.4
57.5°	7.0	7.5	8.9	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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

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Scaled Data Report







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

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