

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: P748346

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748346  
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-EU4DR3040509035-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3714.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

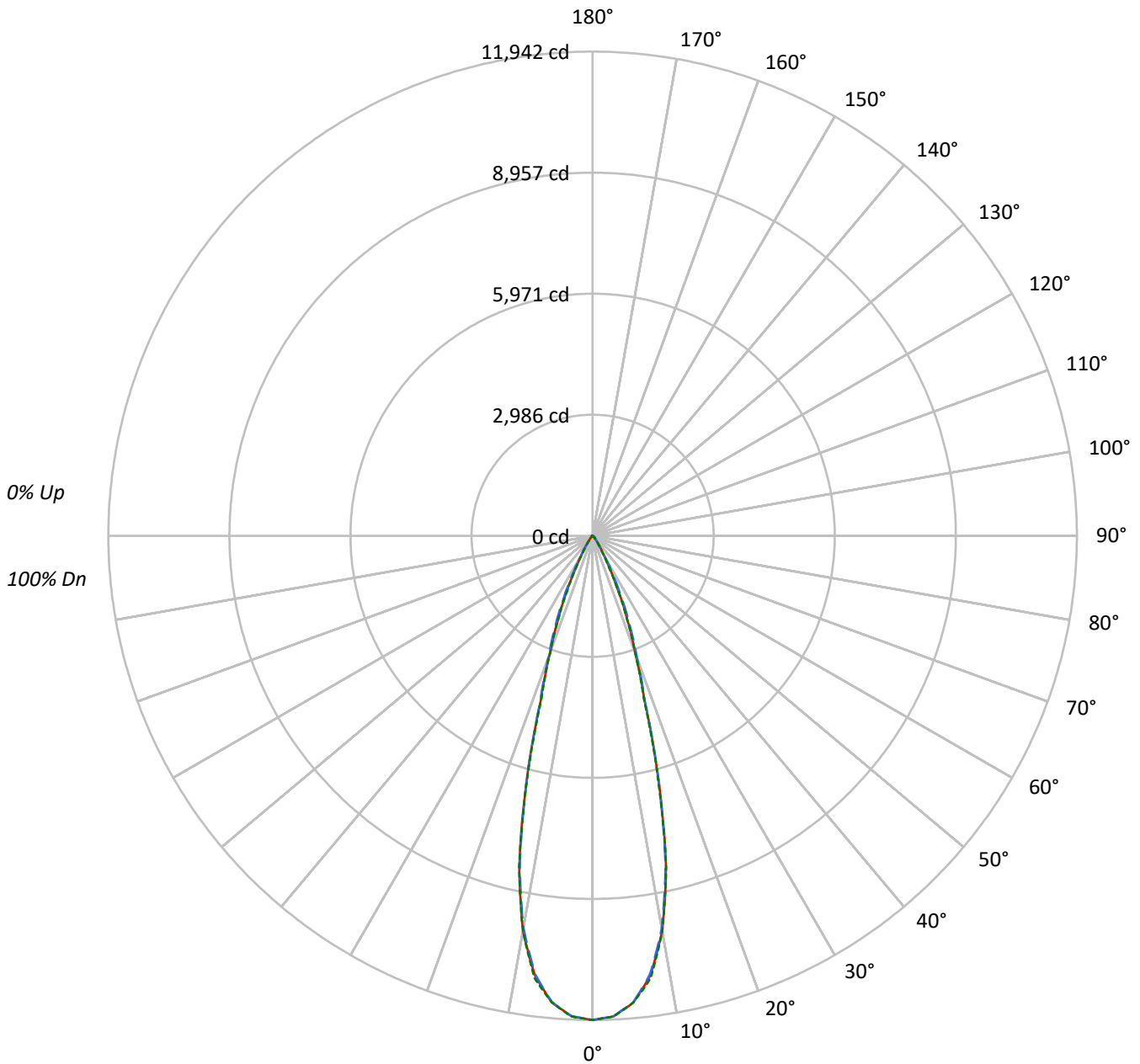
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	914112	914112	914112
5°	887868	886831	887914
10°	769027	763609	768848
15°	501754	499060	496548
20°	249499	258858	249165
25°	125679	141726	123103
30°	50317	54825	43839
35°	23342	22351	18735
40°	10072	11191	9492
45°	7112	8822	7177
50°	2441	6418	2584
55°	1415	2656	1481
60°	980	1163	980
65°	634	634	634
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8822 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1050.2	28.3
10°-20°	1691.3	45.5
20°-30°	730.8	19.7
30°-40°	166.6	4.5
40°-50°	57.2	1.5
50°-60°	14.0	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°	3472.3	93.5
0°-40°	3638.9	98.0
0°-60°	3710.0	99.9
0°-90°	3714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11942	11942	11942	11942	11942	
5°	11555	11544	11542	11566	11556	1051
15°	6332	6256	6298	6277	6266	1695
25°	1488	1544	1678	1505	1458	712
35°	250	255	239	238	200	169
45°	66	82	82	82	66	47
55°	11	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11942.4	11942.4	11942.4	11942.4	11942.4
2.5°	11863.2	11855.0	11859.7	11865.6	11867.9
5°	11555.4	11544.3	11541.9	11566.0	11556.0
7.5°	10934.5	10918.7	10894.6	10949.1	11000.2
10°	9894.3	9876.7	9824.6	9850.4	9892.0
12.5°	8358.7	8301.9	8300.7	8382.8	8371.6
15°	6331.8	6255.6	6297.8	6277.3	6266.1
17.5°	4257.9	4228.6	4284.9	4267.9	4194.6
20°	3063.0	3070.6	3177.9	3124.0	3058.9
22.5°	2235.1	2262.7	2389.9	2250.9	2199.9
25°	1488.1	1544.4	1678.1	1505.1	1457.6
27.5°	915.3	941.1	1076.5	903.5	877.7
30°	569.3	556.4	620.3	532.4	496.0
32.5°	373.5	357.1	377.6	338.9	309.6
35°	249.8	255.1	239.2	237.5	200.5
37.5°	156.0	179.4	158.3	168.9	129.0
40°	100.8	130.2	112.0	123.7	95.0
42.5°	82.7	100.3	92.1	97.9	84.4
45°	65.7	81.5	81.5	81.5	66.3
47.5°	36.4	54.5	69.8	55.7	38.7
50°	20.5	27.6	53.9	28.7	21.7
52.5°	14.1	15.8	36.9	16.4	14.7
55°	10.6	11.1	19.9	11.7	11.1
57.5°	8.2	8.8	10.6	8.8	8.2
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.8	2.3	2.3	2.3	2.3
70°	1.8	1.2	1.2	1.2	1.8
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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