

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: P748344

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748344  
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-EU4DR3040509035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3713.4 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

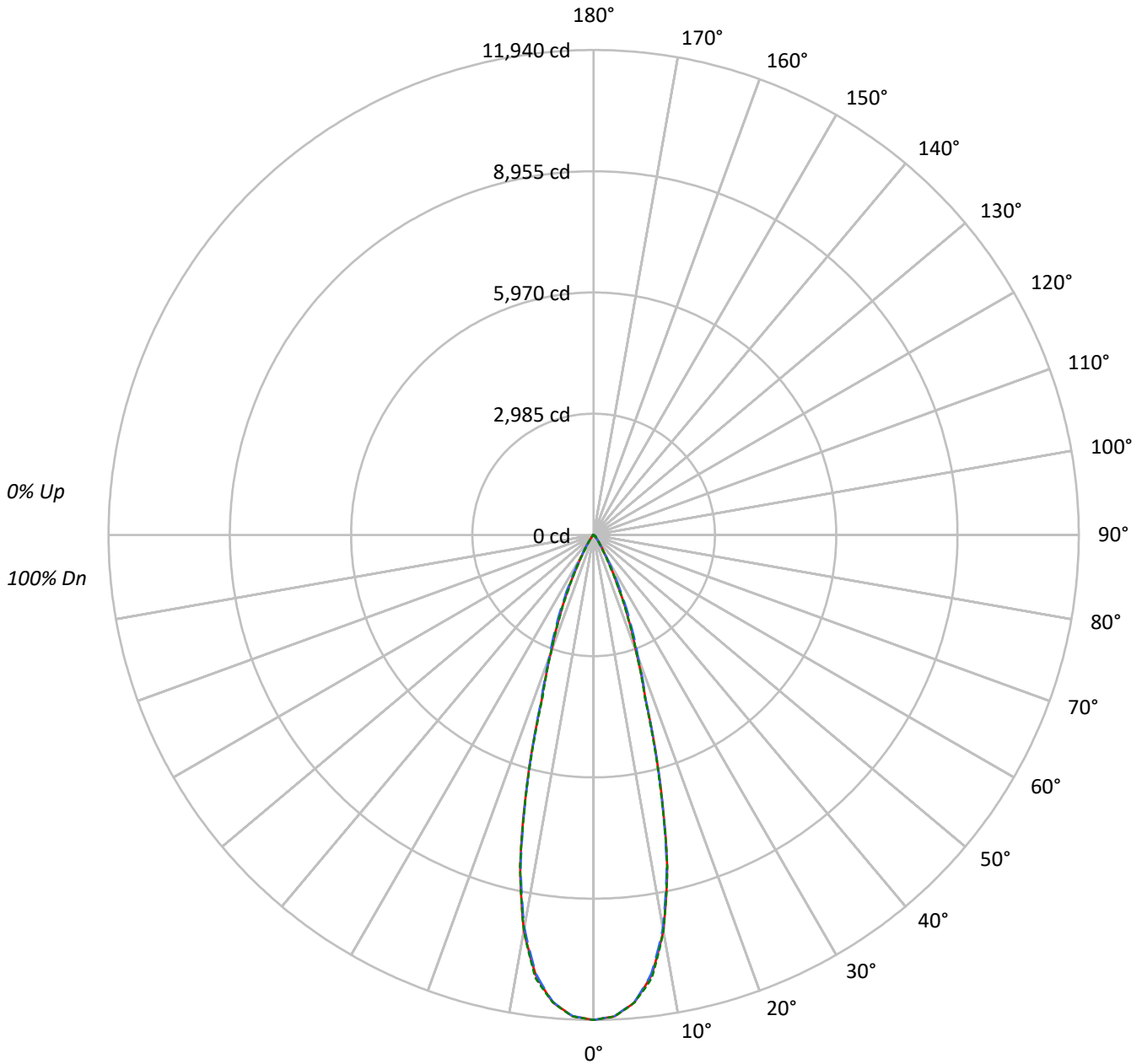
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	913966	913966	913966
5°	887730	886693	887776
10°	768910	763485	768723
15°	501675	498981	496469
20°	249458	258818	249124
25°	125663	141701	123087
30°	50309	54816	43839
35°	23333	22351	18735
40°	10072	11191	9492
45°	7112	8822	7166
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°	1050.0	28.3
10°-20°	1691.0	45.5
20°-30°	730.7	19.7
30°-40°	166.5	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°	3471.7	93.5
0°-40°	3638.3	98.0
0°-60°	3709.4	99.9
0°-90°	3713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11940	11940	11940	11940	11940	
5°	11554	11542	11540	11564	11554	1051
15°	6331	6255	6297	6276	6265	1695
25°	1488	1544	1678	1505	1457	712
35°	250	255	239	237	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°	11940.5	11940.5	11940.5	11940.5	11940.5
2.5°	11861.4	11853.2	11857.8	11863.7	11866.1
5°	11553.6	11542.4	11540.1	11564.1	11554.2
7.5°	10932.8	10916.9	10892.9	10947.4	10998.4
10°	9892.8	9875.2	9823.0	9848.8	9890.4
12.5°	8357.4	8300.6	8299.4	8381.5	8370.3
15°	6330.8	6254.6	6296.8	6276.3	6265.1
17.5°	4257.3	4228.0	4284.2	4267.2	4194.0
20°	3062.5	3070.1	3177.4	3123.5	3058.4
22.5°	2234.7	2262.3	2389.5	2250.6	2199.6
25°	1487.9	1544.2	1677.8	1504.9	1457.4
27.5°	915.1	940.9	1076.3	903.4	877.6
30°	569.2	556.3	620.2	532.3	496.0
32.5°	373.4	357.0	377.5	338.8	309.5
35°	249.7	255.0	239.2	237.4	200.5
37.5°	155.9	179.4	158.3	168.8	129.0
40°	100.8	130.1	112.0	123.7	95.0
42.5°	82.7	100.2	92.0	97.9	84.4
45°	65.7	81.5	81.5	81.5	66.2
47.5°	36.3	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

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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