

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: P746810

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746810  
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: LD4D35BD010-EU4DR3020359050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3035.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

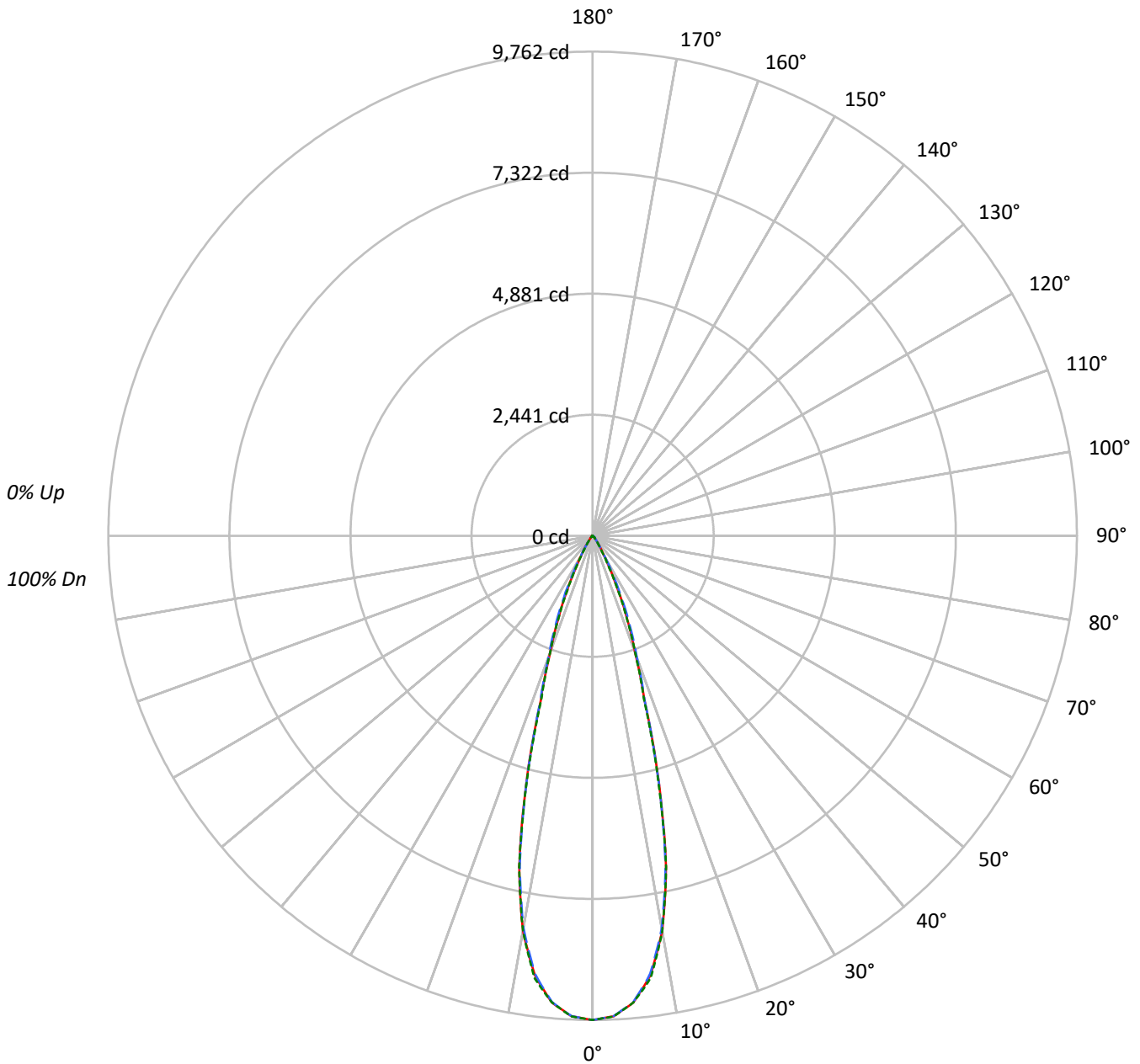
Input Watts (W): 30.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	747209	747209	747209
5°	725760	724915	725798
10°	628618	624188	628470
15°	410141	407938	405885
20°	203941	211598	203672
25°	102733	115849	100630
30°	41134	44820	35840
35°	19081	18268	15315
40°	8233	9143	7754
45°	5813	7209	5867
50°	2001	5251	2108
55°	1148	2175	1214
60°	811	949	811
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7209 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.4	28.3
10°-20°	1382.5	45.5
20°-30°	597.4	19.7
30°-40°	136.2	4.5
40°-50°	46.7	1.5
50°-60°	11.4	0.4
60°-70°	3.0	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°	2838.3	93.5
0°-40°	2974.5	98.0
0°-60°	3032.6	99.9
0°-90°	3035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9762	9762	9762	9762	9762	
5°	9446	9436	9435	9454	9446	859
15°	5176	5113	5148	5131	5122	1386
25°	1216	1262	1372	1230	1192	582
35°	204	208	196	194	164	138
45°	54	67	67	67	54	38
55°	9	9	16	10	9	8
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°	9761.9	9761.9	9761.9	9761.9	9761.9
2.5°	9697.2	9690.5	9694.4	9699.1	9701.1
5°	9445.6	9436.5	9434.6	9454.2	9446.1
7.5°	8938.1	8925.1	8905.5	8950.0	8991.7
10°	8087.8	8073.4	8030.8	8051.9	8085.9
12.5°	6832.6	6786.1	6785.1	6852.2	6843.1
15°	5175.7	5113.4	5147.9	5131.2	5122.0
17.5°	3480.5	3456.6	3502.6	3488.7	3428.8
20°	2503.7	2510.0	2597.7	2553.6	2500.4
22.5°	1827.0	1849.5	1953.5	1839.9	1798.3
25°	1216.4	1262.4	1371.7	1230.3	1191.5
27.5°	748.2	769.2	880.0	738.6	717.5
30°	465.4	454.8	507.1	435.2	405.5
32.5°	305.3	291.9	308.7	277.0	253.1
35°	204.2	208.5	195.5	194.1	163.9
37.5°	127.5	146.7	129.4	138.0	105.4
40°	82.4	106.4	91.5	101.1	77.6
42.5°	67.6	82.0	75.2	80.0	69.0
45°	53.7	66.6	66.6	66.6	54.2
47.5°	29.7	44.6	57.0	45.5	31.6
50°	16.8	22.5	44.1	23.5	17.7
52.5°	11.5	12.9	30.2	13.4	12.0
55°	8.6	9.1	16.3	9.6	9.1
57.5°	6.7	7.2	8.6	7.2	6.7
60°	5.3	5.3	6.2	5.8	5.3
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
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



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Scaled Data Report







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

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(END OF REPORT)