

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: P753050

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753050  
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: LD4D75BD010-EU4DR3070959050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

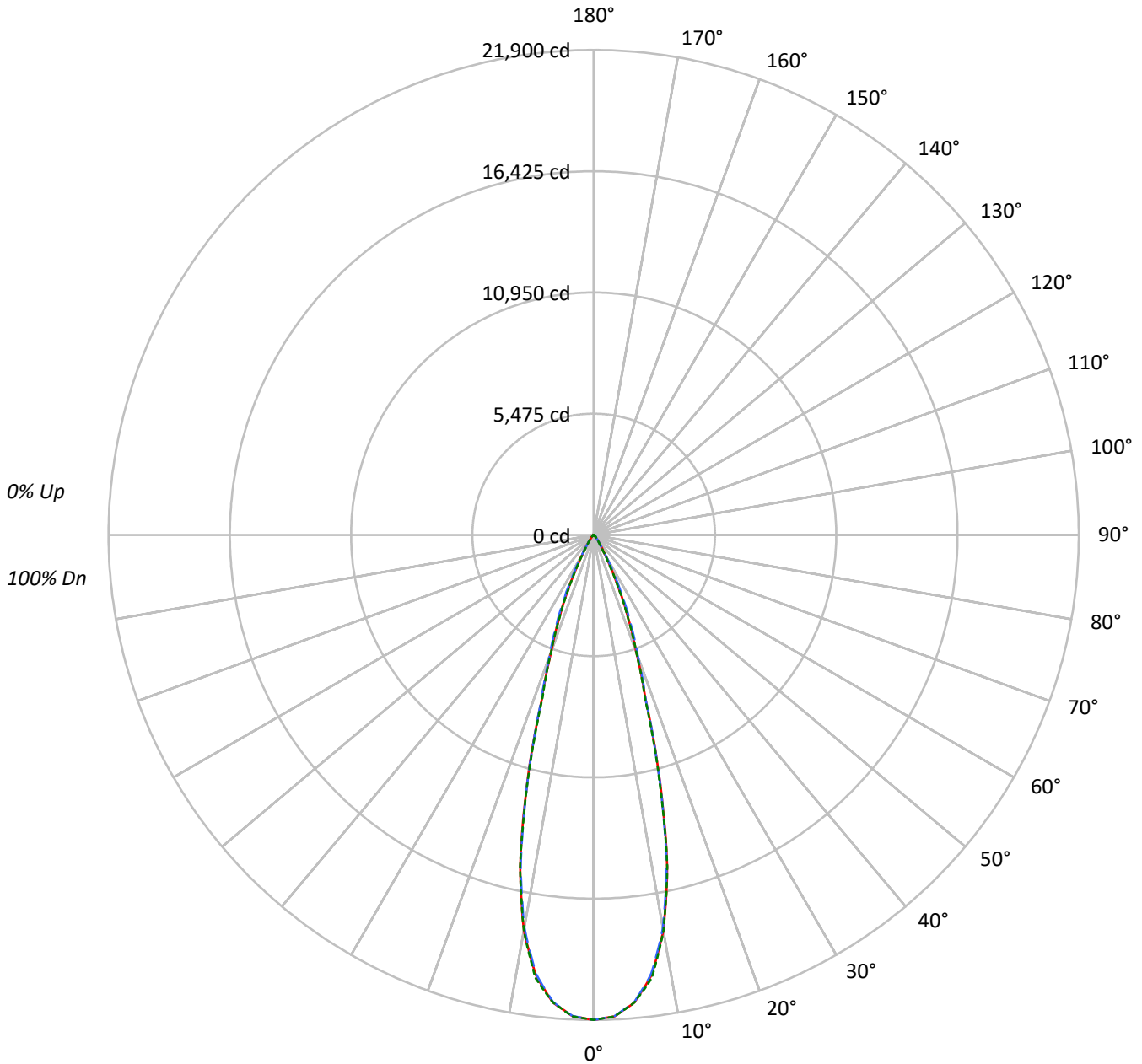
Lumens per Lamp: N/A  
Luminaire Lumens: 6810.8 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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°	1676293	1676293	1676293
5°	1628173	1626275	1628258
10°	1410243	1400303	1409909
15°	920113	915176	910572
20°	457529	474700	456918
25°	230473	259897	225752
30°	92274	100546	80395
35°	42797	40993	34359
40°	18475	20524	17406
45°	13033	16183	13152
50°	4477	11777	4739
55°	2589	4884	2722
60°	1806	2143	1806
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16183 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1925.8	28.3
10°-20°	3101.5	45.5
20°-30°	1340.2	19.7
30°-40°	305.5	4.5
40°-50°	104.9	1.5
50°-60°	25.6	0.4
60°-70°	6.7	0.1
70°-80°	0.7	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°	6367.5	93.5
0°-40°	6672.9	98.0
0°-60°	6803.4	99.9
0°-90°	6810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6810.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21900	21900	21900	21900	21900	
5°	21190	21170	21166	21210	21191	1927
15°	11611	11471	11549	11511	11491	3109
25°	2729	2832	3077	2760	2673	1306
35°	458	468	439	436	368	311
45°	120	150	150	150	122	85
55°	19	20	37	22	20	19
65°	6	6	6	6	6	6
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°	21899.9	21899.9	21899.9	21899.9	21899.9
2.5°	21754.8	21739.7	21748.3	21759.1	21763.4
5°	21190.3	21169.9	21165.6	21209.6	21191.4
7.5°	20051.6	20022.6	19978.5	20078.5	20172.1
10°	18144.2	18112.0	18016.3	18063.6	18139.9
12.5°	15328.2	15223.9	15221.8	15372.3	15351.9
15°	11611.2	11471.4	11548.9	11511.2	11490.8
17.5°	7808.2	7754.4	7857.7	7826.5	7692.1
20°	5616.9	5630.9	5827.7	5728.7	5609.4
22.5°	4098.7	4149.2	4382.6	4127.7	4034.2
25°	2728.9	2832.1	3077.3	2760.1	2673.0
27.5°	1678.4	1725.7	1974.1	1656.9	1609.6
30°	1044.0	1020.4	1137.6	976.3	909.6
32.5°	684.9	654.8	692.4	621.5	567.7
35°	458.0	467.7	438.7	435.5	367.7
37.5°	286.0	329.0	290.3	309.7	236.5
40°	184.9	238.7	205.4	226.9	174.2
42.5°	151.6	183.9	168.8	179.6	154.8
45°	120.4	149.5	149.5	149.5	121.5
47.5°	66.7	100.0	128.0	102.1	71.0
50°	37.6	50.5	98.9	52.7	39.8
52.5°	25.8	29.0	67.7	30.1	26.9
55°	19.4	20.4	36.6	21.5	20.4
57.5°	15.1	16.1	19.4	16.1	15.1
60°	11.8	11.8	14.0	12.9	11.8
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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