

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: P755353

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755353  
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: LD4D90BD010-EU4DR3070959030-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7665.8 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

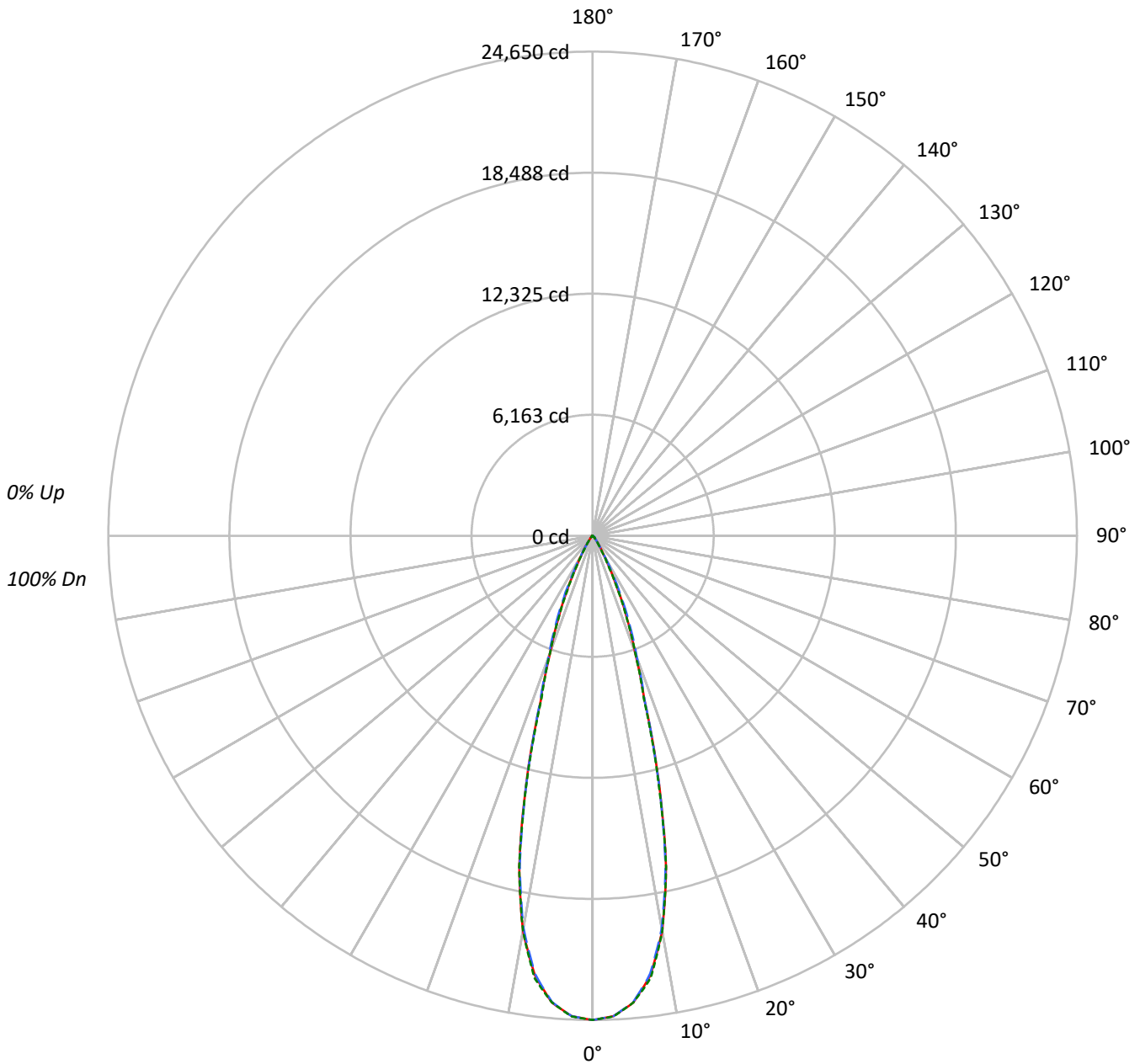
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1886756	1886756	1886756
5°	1832587	1830451	1832679
10°	1587299	1576107	1586926
15°	1035634	1030071	1024897
20°	514972	534293	514279
25°	259408	292523	254095
30°	103861	113168	90488
35°	48169	46142	38676
40°	20803	23092	19594
45°	14668	18207	14808
50°	5049	13254	5335
55°	2909	5485	3069
60°	2036	2403	2036
65°	1322	1322	1322
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 18207 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2167.5	28.3
10°-20°	3490.9	45.5
20°-30°	1508.5	19.7
30°-40°	343.8	4.5
40°-50°	118.0	1.5
50°-60°	28.8	0.4
60°-70°	7.5	0.1
70°-80°	0.8	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°	7166.9	93.5
0°-40°	7510.7	98.0
0°-60°	7657.6	99.9
0°-90°	7665.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7665.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24650	24650	24650	24650	24650	
5°	23851	23828	23823	23872	23852	2169
15°	13069	12912	12999	12956	12934	3499
25°	3072	3188	3464	3107	3009	1470
35°	516	526	494	490	414	350
45°	136	168	168	168	137	96
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24649.5	24649.5	24649.5	24649.5	24649.5
2.5°	24486.1	24469.1	24478.8	24490.9	24495.8
5°	23850.7	23827.7	23822.9	23872.5	23851.9
7.5°	22569.1	22536.4	22486.8	22599.4	22704.7
10°	20422.2	20385.9	20278.2	20331.4	20417.4
12.5°	17252.7	17135.3	17132.9	17302.3	17279.3
15°	13069.0	12911.7	12998.8	12956.5	12933.5
17.5°	8788.5	8728.0	8844.2	8809.1	8657.8
20°	6322.1	6337.8	6559.3	6448.0	6313.6
22.5°	4613.3	4670.2	4932.8	4646.0	4540.7
25°	3071.5	3187.7	3463.6	3106.6	3008.6
27.5°	1889.1	1942.4	2221.9	1864.9	1811.7
30°	1175.1	1148.5	1280.4	1098.9	1023.8
32.5°	770.9	737.0	779.4	699.5	639.0
35°	515.5	526.4	493.8	490.1	413.9
37.5°	321.9	370.3	326.8	348.5	266.2
40°	208.2	268.7	231.1	255.4	196.1
42.5°	170.6	206.9	190.0	202.1	174.3
45°	135.5	168.2	168.2	168.2	136.8
47.5°	75.0	112.5	144.0	115.0	79.9
50°	42.4	56.9	111.3	59.3	44.8
52.5°	29.0	32.7	76.2	33.9	30.3
55°	21.8	23.0	41.1	24.2	23.0
57.5°	16.9	18.2	21.8	18.2	16.9
60°	13.3	13.3	15.7	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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