

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: P755379

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755379  
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-EU4DR3070959040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8108.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 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')

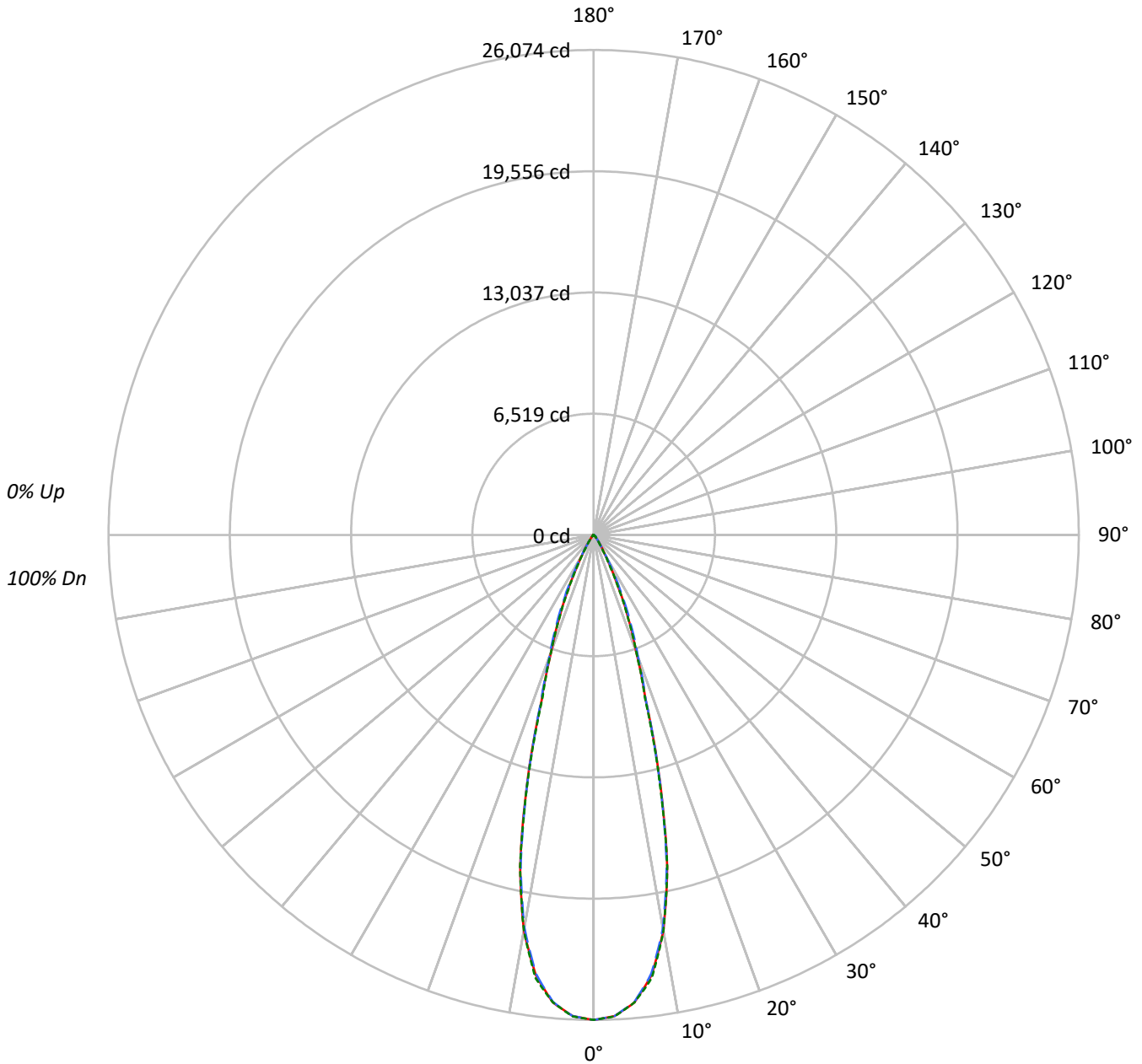
CIE Type: Direct  
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 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	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°	1995770	1995770	1995770
5°	1938475	1936208	1938567
10°	1679014	1667169	1678610
15°	1095471	1089591	1084107
20°	544727	565165	543994
25°	274398	309423	268774
30°	109862	119708	95721
35°	50954	48805	40909
40°	22002	24431	20723
45°	15523	19257	15664
50°	5335	14028	5644
55°	3069	5805	3243
60°	2159	2541	2159
65°	1395	1395	1395
70°	850	582	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19257 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2292.8	28.3
10°-20°	3692.6	45.5
20°-30°	1595.6	19.7
30°-40°	363.7	4.5
40°-50°	124.9	1.5
50°-60°	30.5	0.4
60°-70°	7.9	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°	7581.0	93.5
0°-40°	7944.7	98.0
0°-60°	8100.0	99.9
0°-90°	8108.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8108.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26074	26074	26074	26074	26074	
5°	25229	25204	25199	25252	25230	2295
15°	13824	13658	13750	13705	13681	3702
25°	3249	3372	3664	3286	3182	1555
35°	545	557	522	518	438	370
45°	143	178	178	178	145	102
55°	23	24	44	26	24	22
65°	8	8	8	8	8	8
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°	26073.7	26073.7	26073.7	26073.7	26073.7
2.5°	25900.8	25882.9	25893.2	25906.0	25911.1
5°	25228.8	25204.4	25199.3	25251.8	25230.0
7.5°	23873.1	23838.5	23786.1	23905.1	24016.5
10°	21602.2	21563.8	21449.8	21506.2	21597.0
12.5°	18249.5	18125.3	18122.8	18302.0	18277.7
15°	13824.1	13657.7	13749.9	13705.1	13680.7
17.5°	9296.3	9232.3	9355.2	9318.1	9158.0
20°	6687.4	6704.0	6938.3	6820.5	6678.4
22.5°	4879.8	4940.0	5217.8	4914.4	4803.0
25°	3249.0	3371.9	3663.7	3286.1	3182.4
27.5°	1998.3	2054.6	2350.3	1972.7	1916.4
30°	1243.0	1214.8	1354.4	1162.4	1083.0
32.5°	815.4	779.6	824.4	739.9	675.9
35°	545.3	556.9	522.3	518.5	437.8
37.5°	340.5	391.7	345.6	368.7	281.6
40°	220.2	284.2	244.5	270.1	207.4
42.5°	180.5	218.9	201.0	213.8	184.3
45°	143.4	177.9	177.9	177.9	144.7
47.5°	79.4	119.1	152.3	121.6	84.5
50°	44.8	60.2	117.8	62.7	47.4
52.5°	30.7	34.6	80.6	35.8	32.0
55°	23.0	24.3	43.5	25.6	24.3
57.5°	17.9	19.2	23.0	19.2	17.9
60°	14.1	14.1	16.6	15.4	14.1
62.5°	10.2	10.2	11.5	10.2	10.2
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.6	2.6	2.6	3.8
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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