

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: P755350

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755350  
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-EU4DR3070959027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

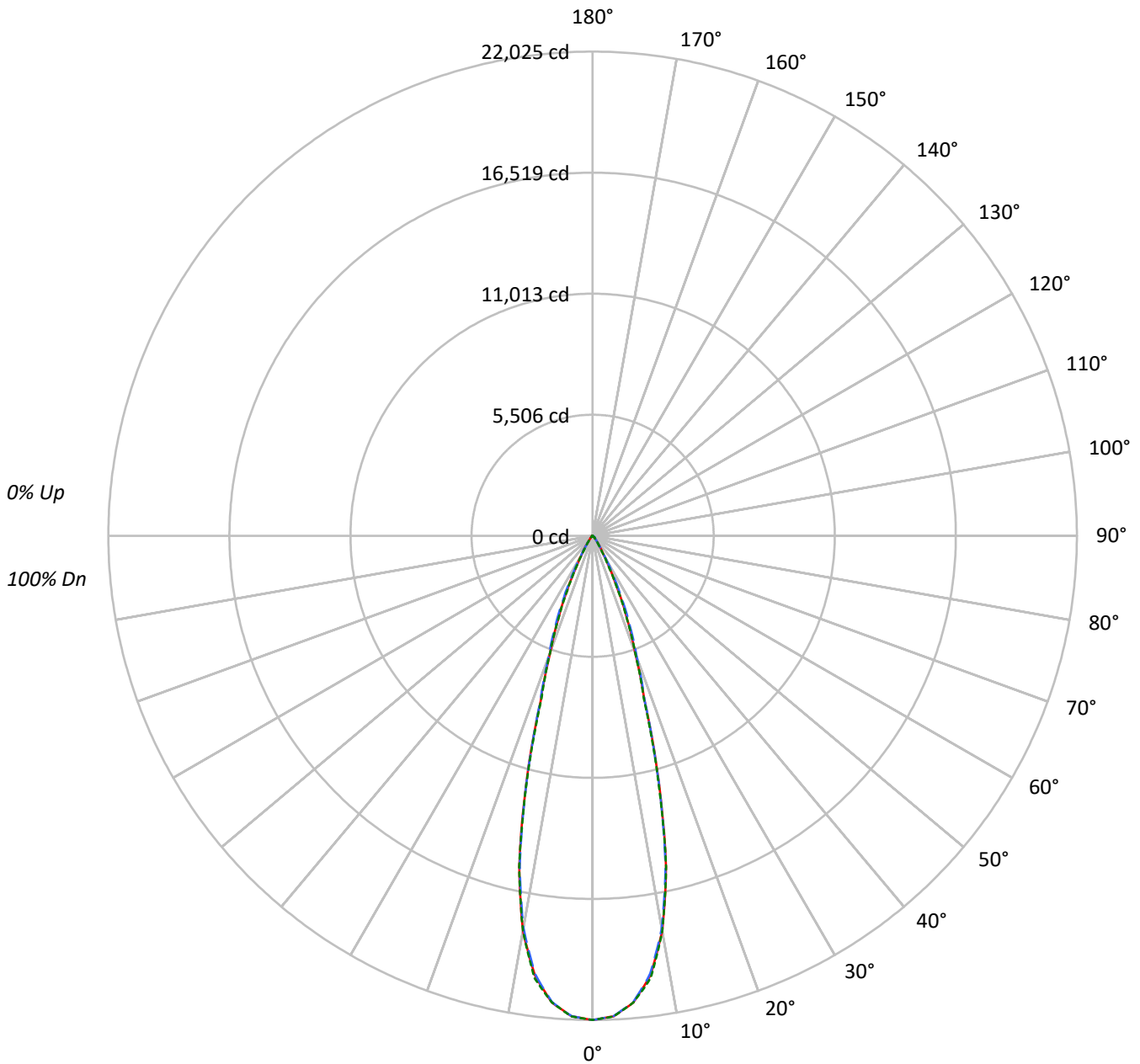
Lumens per Lamp: N/A  
Luminaire Lumens: 6849.6 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (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°	1685853	1685853	1685853
5°	1637455	1635542	1637539
10°	1418288	1408285	1417946
15°	925359	920390	915762
20°	460136	477404	459525
25°	231782	261375	227035
30°	92804	101121	80854
35°	43049	41227	34555
40°	18585	20634	17506
45°	13109	16270	13228
50°	4501	11848	4763
55°	2602	4911	2736
60°	1822	2159	1822
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: 16270 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1936.7	28.3
10°-20°	3119.2	45.5
20°-30°	1347.9	19.7
30°-40°	307.2	4.5
40°-50°	105.5	1.5
50°-60°	25.8	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°	6403.8	93.5
0°-40°	6711.0	98.0
0°-60°	6842.2	99.9
0°-90°	6849.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6849.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22025	22025	22025	22025	22025	
5°	21311	21291	21286	21331	21312	1938
15°	11677	11537	11615	11577	11556	3127
25°	2744	2848	3095	2776	2688	1314
35°	461	470	441	438	370	312
45°	121	150	150	150	122	86
55°	20	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°	22024.8	22024.8	22024.8	22024.8	22024.8
2.5°	21878.8	21863.7	21872.3	21883.1	21887.5
5°	21311.1	21290.6	21286.2	21330.6	21312.2
7.5°	20166.0	20136.8	20092.4	20193.0	20287.1
10°	18247.7	18215.2	18119.0	18166.6	18243.3
12.5°	15415.6	15310.7	15308.6	15460.0	15439.4
15°	11677.4	11536.9	11614.7	11576.9	11556.3
17.5°	7852.7	7798.6	7902.5	7871.1	7735.9
20°	5648.9	5663.0	5860.9	5761.4	5641.4
22.5°	4122.1	4172.9	4407.6	4151.3	4057.2
25°	2744.4	2848.3	3094.8	2775.8	2688.2
27.5°	1688.0	1735.6	1985.3	1666.3	1618.8
30°	1050.0	1026.2	1144.1	981.9	914.8
32.5°	688.8	658.5	696.4	625.0	570.9
35°	460.7	470.4	441.2	437.9	369.8
37.5°	287.6	330.9	292.0	311.4	237.9
40°	186.0	240.1	206.5	228.2	175.2
42.5°	152.5	184.9	169.8	180.6	155.7
45°	121.1	150.3	150.3	150.3	122.2
47.5°	67.0	100.6	128.7	102.7	71.4
50°	37.8	50.8	99.5	53.0	40.0
52.5°	26.0	29.2	68.1	30.3	27.0
55°	19.5	20.5	36.8	21.6	20.5
57.5°	15.1	16.2	19.5	16.2	15.1
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.7	8.7	8.7
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

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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