

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: P754560

Luminaire Tested: LD4D85BD010-EU4DR3070959027-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754560  
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: LD4D85BD010-EU4DR3070959027-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST 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: 7014.1 lumens  
Efficiency: N/A  
Efficacy: 80.0 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

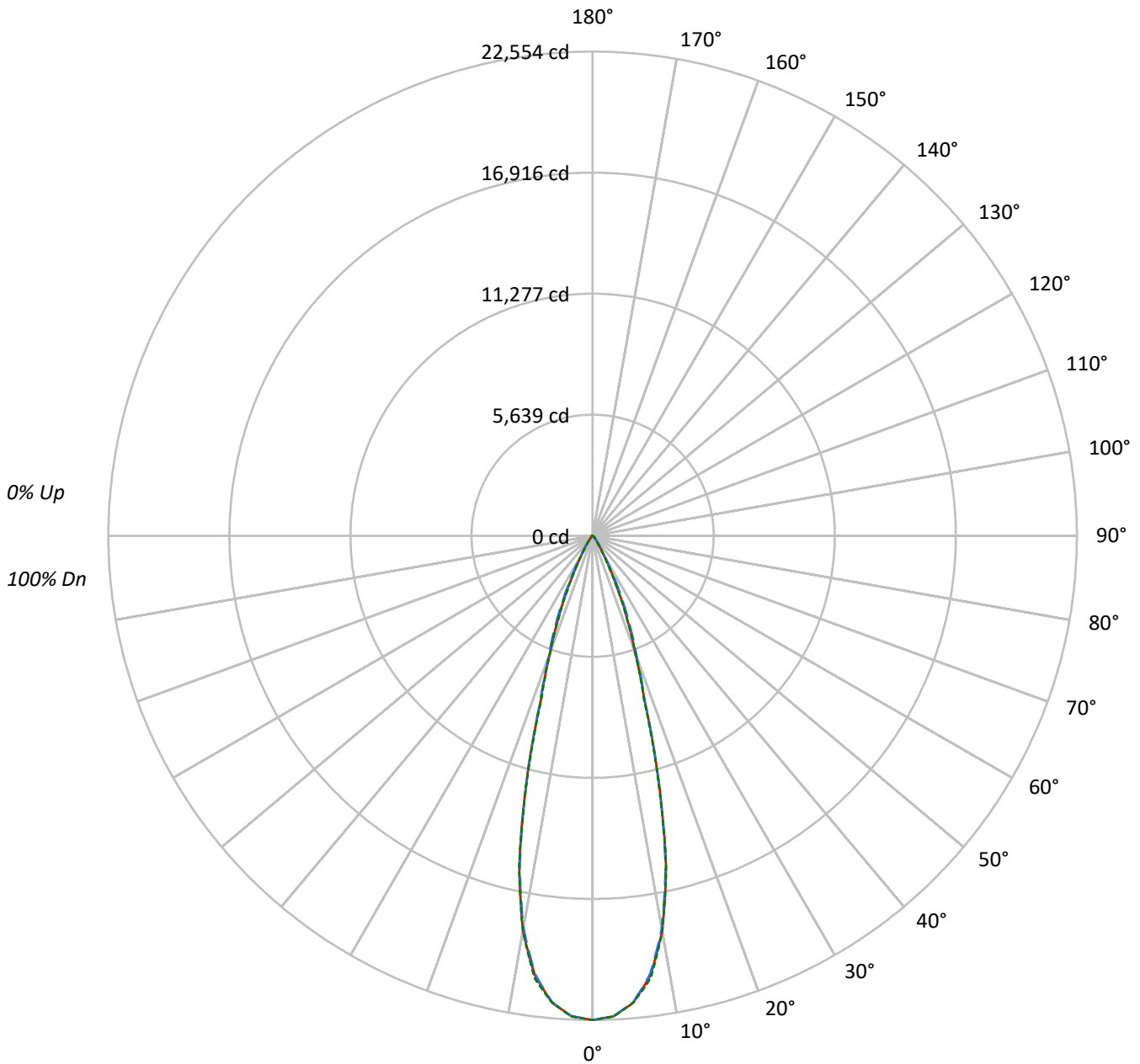
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1726337	1726337	1726337
5°	1676780	1674820	1676864
10°	1452347	1442103	1452005
15°	947587	942491	937752
20°	471189	488865	470554
25°	237356	267650	232491
30°	95031	103543	82799
35°	44077	42217	35387
40°	19035	21133	17926
45°	13423	16659	13542
50°	4620	12134	4882
55°	2656	5018	2802
60°	1868	2204	1868
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16659 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1983.3	28.3
10°-20°	3194.1	45.5
20°-30°	1380.2	19.7
30°-40°	314.6	4.5
40°-50°	108.0	1.5
50°-60°	26.4	0.4
60°-70°	6.8	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°	6557.5	93.5
0°-40°	6872.1	98.0
0°-60°	7006.5	99.9
0°-90°	7014.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7014.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22554	22554	22554	22554	22554	
5°	21823	21802	21797	21843	21824	1985
15°	11958	11814	11894	11855	11834	3202
25°	2810	2917	3169	2842	2753	1345
35°	472	482	452	448	379	320
45°	124	154	154	154	125	88
55°	20	21	38	22	21	19
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°	22553.7	22553.7	22553.7	22553.7	22553.7
2.5°	22404.3	22388.8	22397.6	22408.7	22413.1
5°	21822.9	21801.9	21797.4	21842.8	21824.0
7.5°	20650.3	20620.4	20575.0	20678.0	20774.3
10°	18685.9	18652.7	18554.1	18602.8	18681.5
12.5°	15785.8	15678.4	15676.2	15831.2	15810.2
15°	11957.9	11813.9	11893.6	11854.9	11833.8
17.5°	8041.3	7985.9	8092.2	8060.1	7921.7
20°	5784.6	5799.0	6001.6	5899.8	5776.8
22.5°	4221.1	4273.1	4513.4	4251.0	4154.6
25°	2810.4	2916.7	3169.1	2842.5	2752.8
27.5°	1728.5	1777.2	2033.0	1706.4	1657.6
30°	1075.2	1050.8	1171.5	1005.4	936.8
32.5°	705.4	674.4	713.1	640.0	584.7
35°	471.7	481.7	451.8	448.5	378.7
37.5°	294.5	338.8	299.0	318.9	243.6
40°	190.5	245.8	211.5	233.6	179.4
42.5°	156.1	189.4	173.8	184.9	159.5
45°	124.0	153.9	153.9	153.9	125.1
47.5°	68.7	103.0	131.8	105.2	73.1
50°	38.8	52.0	101.9	54.3	41.0
52.5°	26.6	29.9	69.8	31.0	27.7
55°	19.9	21.0	37.6	22.1	21.0
57.5°	15.5	16.6	19.9	16.6	15.5
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
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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