

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: P751453

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751453  
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: LD4D65D010-EU4DR3055659030-4LBCSSQMW  
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: 5935.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 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

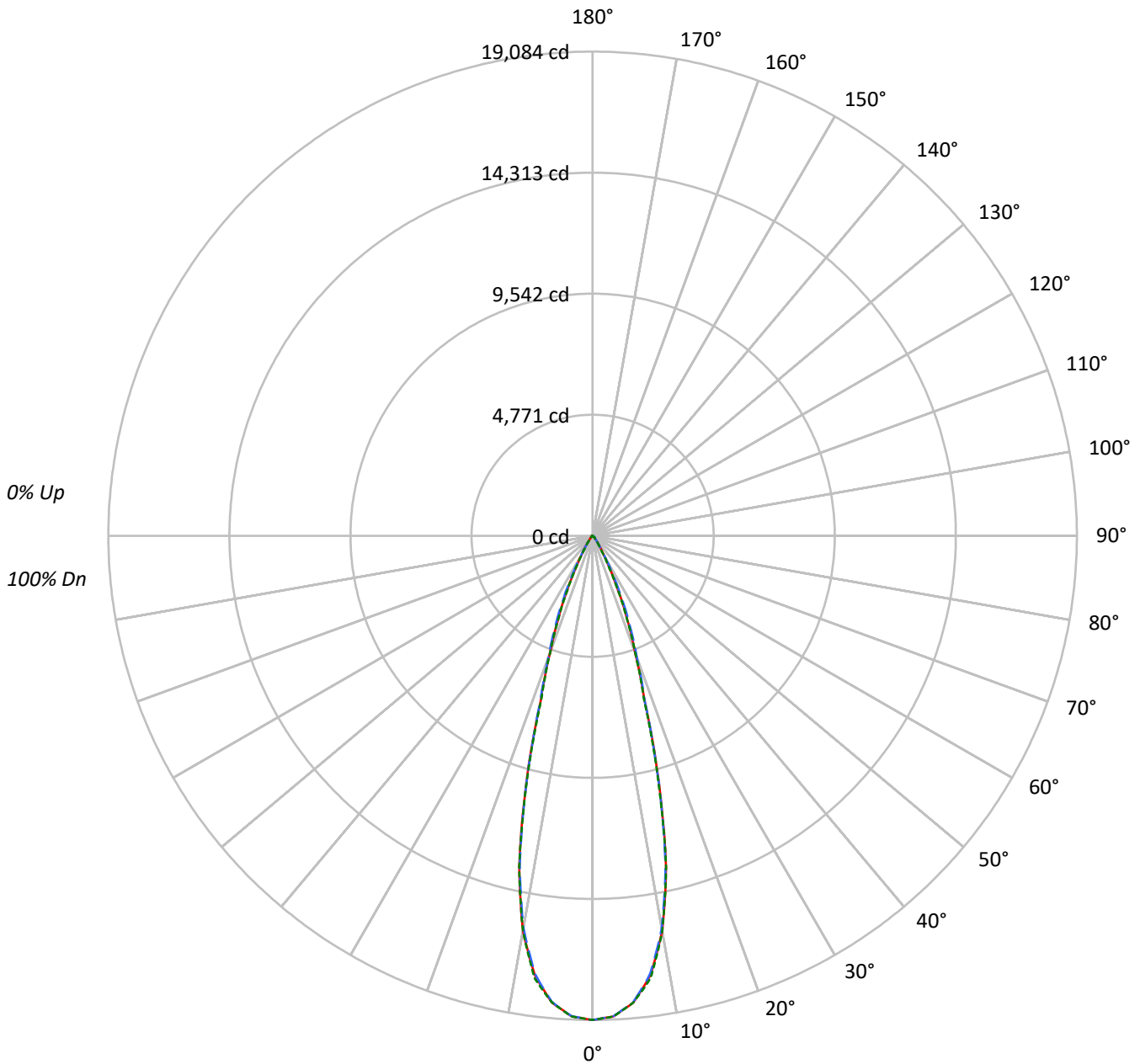
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	1460747	1460747	1460747
5°	1418811	1417159	1418888
10°	1228905	1220239	1228618
15°	801802	797491	793482
20°	398702	413657	398164
25°	200837	226478	196724
30°	80412	87616	70063
35°	37293	35723	29939
40°	16107	17886	15168
45°	11355	14094	11464
50°	3906	10265	4132
55°	2255	4257	2375
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14094 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1678.1	28.3
10°-20°	2702.7	45.5
20°-30°	1167.9	19.7
30°-40°	266.2	4.5
40°-50°	91.4	1.5
50°-60°	22.3	0.4
60°-70°	5.8	0.1
70°-80°	0.6	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°	5548.7	93.5
0°-40°	5814.9	98.0
0°-60°	5928.6	99.9
0°-90°	5935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19084	19084	19084	19084	19084	
5°	18466	18448	18444	18482	18466	1680
15°	10118	9996	10064	10031	10013	2709
25°	2378	2468	2682	2405	2329	1138
35°	399	408	382	380	320	271
45°	105	130	130	130	106	74
55°	17	18	32	19	18	16
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°	19083.9	19083.9	19083.9	19083.9	19083.9
2.5°	18957.4	18944.3	18951.8	18961.2	18964.9
5°	18465.5	18447.7	18444.0	18482.4	18466.5
7.5°	17473.3	17448.0	17409.6	17496.7	17578.2
10°	15811.1	15783.0	15699.6	15740.9	15807.4
12.5°	13357.2	13266.4	13264.5	13395.7	13377.9
15°	10118.2	9996.4	10063.8	10031.0	10013.2
17.5°	6804.2	6757.3	6847.3	6820.1	6703.0
20°	4894.7	4906.8	5078.3	4992.1	4888.1
22.5°	3571.7	3615.7	3819.0	3597.0	3515.5
25°	2378.0	2467.9	2681.6	2405.2	2329.3
27.5°	1462.6	1503.8	1720.3	1443.8	1402.6
30°	909.8	889.2	991.3	850.8	792.7
32.5°	596.8	570.6	603.4	541.6	494.7
35°	399.1	407.6	382.3	379.5	320.4
37.5°	249.2	286.7	253.0	269.8	206.1
40°	161.2	208.0	179.0	197.7	151.8
42.5°	132.1	160.2	147.1	156.5	134.9
45°	104.9	130.2	130.2	130.2	105.9
47.5°	58.1	87.1	111.5	89.0	61.8
50°	32.8	44.0	86.2	45.9	34.7
52.5°	22.5	25.3	59.0	26.2	23.4
55°	16.9	17.8	31.9	18.7	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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