

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: P751479

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751479  
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-EU4DR3055659040-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

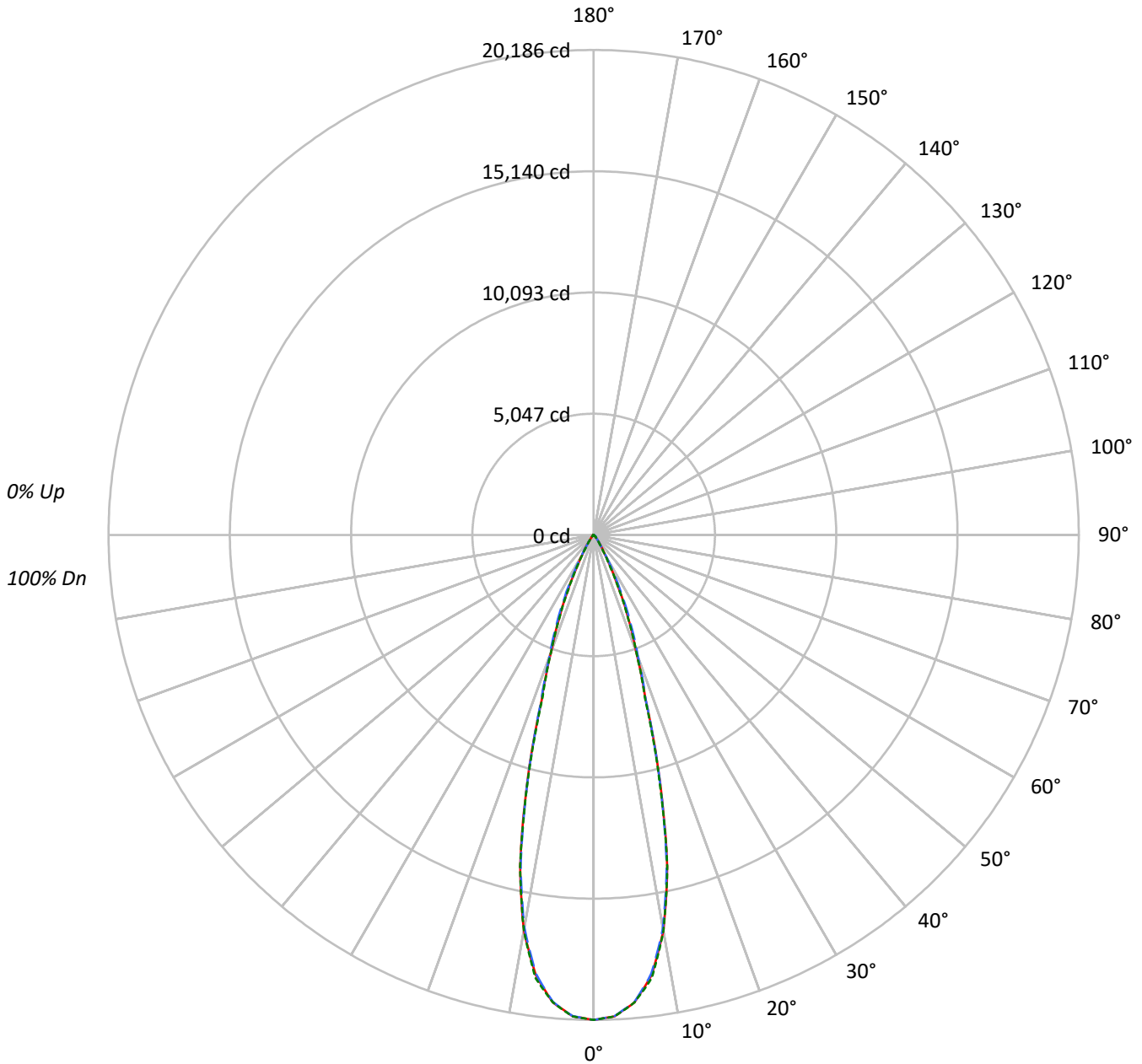
Lumens per Lamp: N/A  
Luminaire Lumens: 6277.9 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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°	1545143	1545143	1545143
5°	1500787	1499035	1500864
10°	1299914	1290742	1299603
15°	848128	843571	839332
20°	421737	437556	421167
25°	212441	239560	208092
30°	85053	92680	74111
35°	39451	37788	31677
40°	17036	18915	16047
45°	12016	14917	12124
50°	4132	10860	4370
55°	2375	4497	2509
60°	1669	1975	1669
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14917 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1775.1	28.3
10°-20°	2858.8	45.5
20°-30°	1235.4	19.7
30°-40°	281.6	4.5
40°-50°	96.7	1.5
50°-60°	23.6	0.4
60°-70°	6.1	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°	5869.3	93.5
0°-40°	6150.9	98.0
0°-60°	6271.2	99.9
0°-90°	6277.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6277.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20186	20186	20186	20186	20186	
5°	19532	19514	19510	19550	19533	1777
15°	10703	10574	10645	10611	10592	2866
25°	2515	2610	2836	2544	2464	1204
35°	422	431	404	401	339	286
45°	111	138	138	138	112	79
55°	18	19	34	20	19	17
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°	20186.5	20186.5	20186.5	20186.5	20186.5
2.5°	20052.7	20038.9	20046.8	20056.7	20060.7
5°	19532.4	19513.6	19509.6	19550.3	19533.4
7.5°	18482.9	18456.1	18415.5	18507.6	18593.9
10°	16724.7	16694.9	16606.7	16650.3	16720.7
12.5°	14129.0	14032.9	14030.9	14169.6	14150.8
15°	10702.8	10573.9	10645.3	10610.6	10591.8
17.5°	7197.3	7147.7	7242.9	7214.2	7090.3
20°	5177.5	5190.3	5371.7	5280.5	5170.5
22.5°	3778.0	3824.6	4039.7	3804.8	3718.6
25°	2515.4	2610.5	2836.5	2544.1	2463.9
27.5°	1547.1	1590.7	1819.6	1527.3	1483.7
30°	962.3	940.5	1048.6	899.9	838.5
32.5°	631.3	603.6	638.3	572.9	523.3
35°	422.2	431.1	404.4	401.4	339.0
37.5°	263.6	303.3	267.6	285.4	218.0
40°	170.5	220.0	189.3	209.1	160.6
42.5°	139.7	169.5	155.6	165.5	142.7
45°	111.0	137.8	137.8	137.8	112.0
47.5°	61.4	92.2	117.9	94.2	65.4
50°	34.7	46.6	91.2	48.6	36.7
52.5°	23.8	26.8	62.4	27.8	24.8
55°	17.8	18.8	33.7	19.8	18.8
57.5°	13.9	14.9	17.8	14.9	13.9
60°	10.9	10.9	12.9	11.9	10.9
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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