

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: P749906

Luminaire Tested: LD4D55D010-EU4DR3055659035-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749906  
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: LD4D55D010-EU4DR3055659035-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

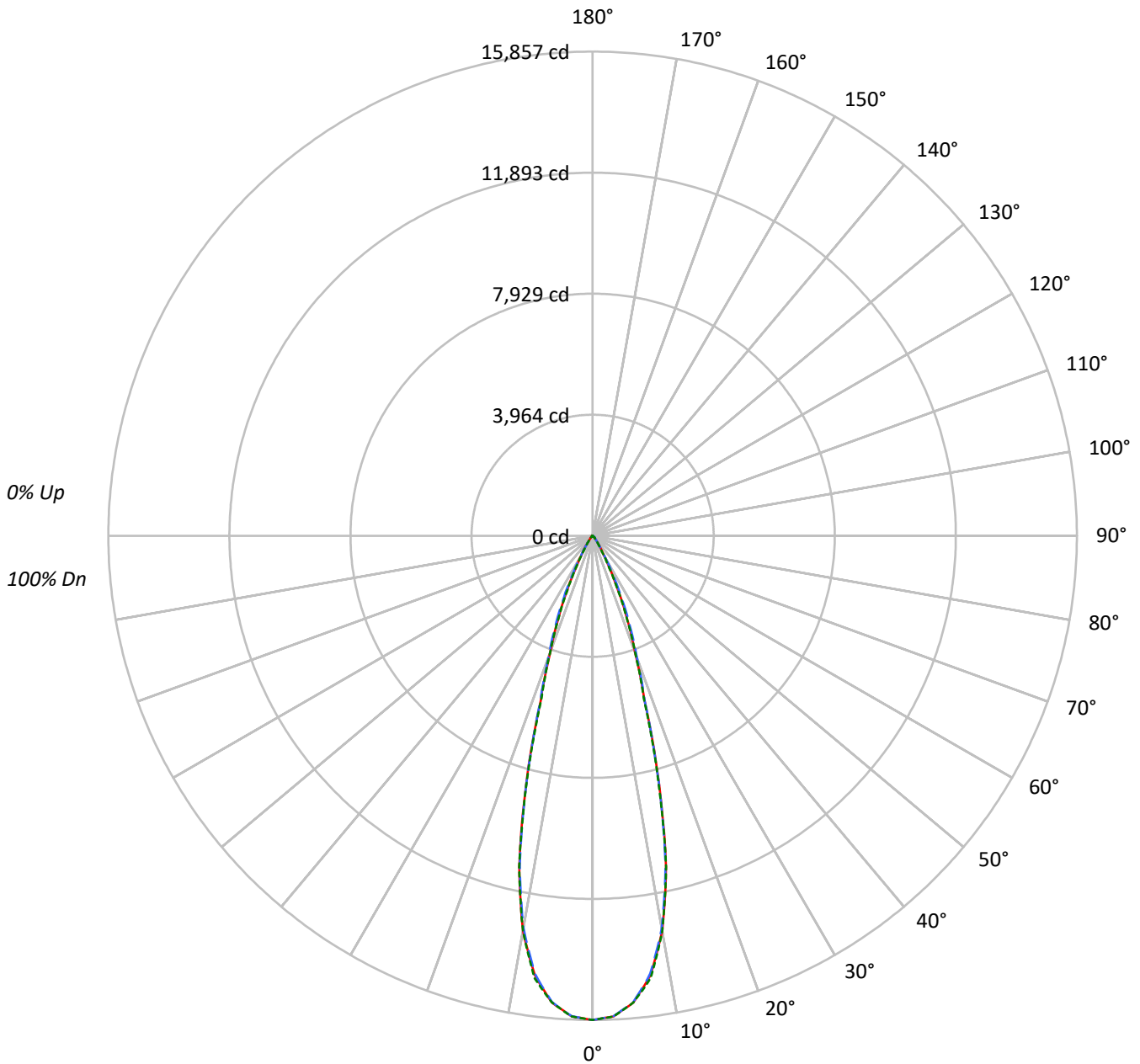
Lumens per Lamp: N/A  
Luminaire Lumens: 4931.4 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.2  
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°	1213741	1213741	1213741
5°	1178899	1177524	1178961
10°	1021102	1013904	1020861
15°	666216	662643	659314
20°	331281	343711	330833
25°	166877	188177	163457
30°	66810	72802	58210
35°	30985	29677	24884
40°	13379	14858	12600
45°	9439	11713	9526
50°	3239	8526	3430
55°	1868	3536	1975
60°	1317	1546	1317
65°	851	851	851
70°	515	358	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 11713 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1394.4	28.3
10°-20°	2245.7	45.5
20°-30°	970.4	19.7
30°-40°	221.2	4.5
40°-50°	75.9	1.5
50°-60°	18.6	0.4
60°-70°	4.8	0.1
70°-80°	0.5	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°	4610.4	93.5
0°-40°	4831.6	98.0
0°-60°	4926.1	99.9
0°-90°	4931.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4931.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15857	15857	15857	15857	15857	
5°	15343	15328	15325	15357	15344	1396
15°	8407	8306	8362	8335	8320	2251
25°	1976	2051	2228	1998	1935	946
35°	332	339	318	315	266	225
45°	87	108	108	108	88	62
55°	14	15	26	16	15	14
65°	5	5	5	5	5	5
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°	15856.9	15856.9	15856.9	15856.9	15856.9
2.5°	15751.8	15740.9	15747.1	15754.9	15758.0
5°	15343.1	15328.3	15325.2	15357.1	15343.9
7.5°	14518.6	14497.6	14465.7	14538.1	14605.8
10°	13137.5	13114.2	13044.9	13079.2	13134.4
12.5°	11098.6	11023.1	11021.5	11130.5	11115.7
15°	8407.2	8306.0	8362.1	8334.8	8320.1
17.5°	5653.6	5614.7	5689.4	5666.9	5569.5
20°	4067.0	4077.1	4219.6	4148.0	4061.5
22.5°	2967.7	3004.3	3173.3	2988.7	2921.0
25°	1975.9	2050.6	2228.1	1998.5	1935.4
27.5°	1215.3	1249.5	1429.4	1199.7	1165.4
30°	755.9	738.8	823.7	706.9	658.6
32.5°	495.9	474.1	501.4	450.0	411.1
35°	331.6	338.7	317.6	315.3	266.3
37.5°	207.1	238.2	210.2	224.2	171.3
40°	133.9	172.8	148.7	164.3	126.1
42.5°	109.8	133.1	122.2	130.0	112.1
45°	87.2	108.2	108.2	108.2	88.0
47.5°	48.3	72.4	92.6	74.0	51.4
50°	27.2	36.6	71.6	38.1	28.8
52.5°	18.7	21.0	49.0	21.8	19.5
55°	14.0	14.8	26.5	15.6	14.8
57.5°	10.9	11.7	14.0	11.7	10.9
60°	8.6	8.6	10.1	9.3	8.6
62.5°	6.2	6.2	7.0	6.2	6.2
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.6	1.6	1.6	2.3
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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