

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: P753026

Luminaire Tested: LD4D75BD010-EU4DR3070959035-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P753026  
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: LD4D75BD010-EU4DR3070959035-4LBCSSQMW  
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: 6461.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 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

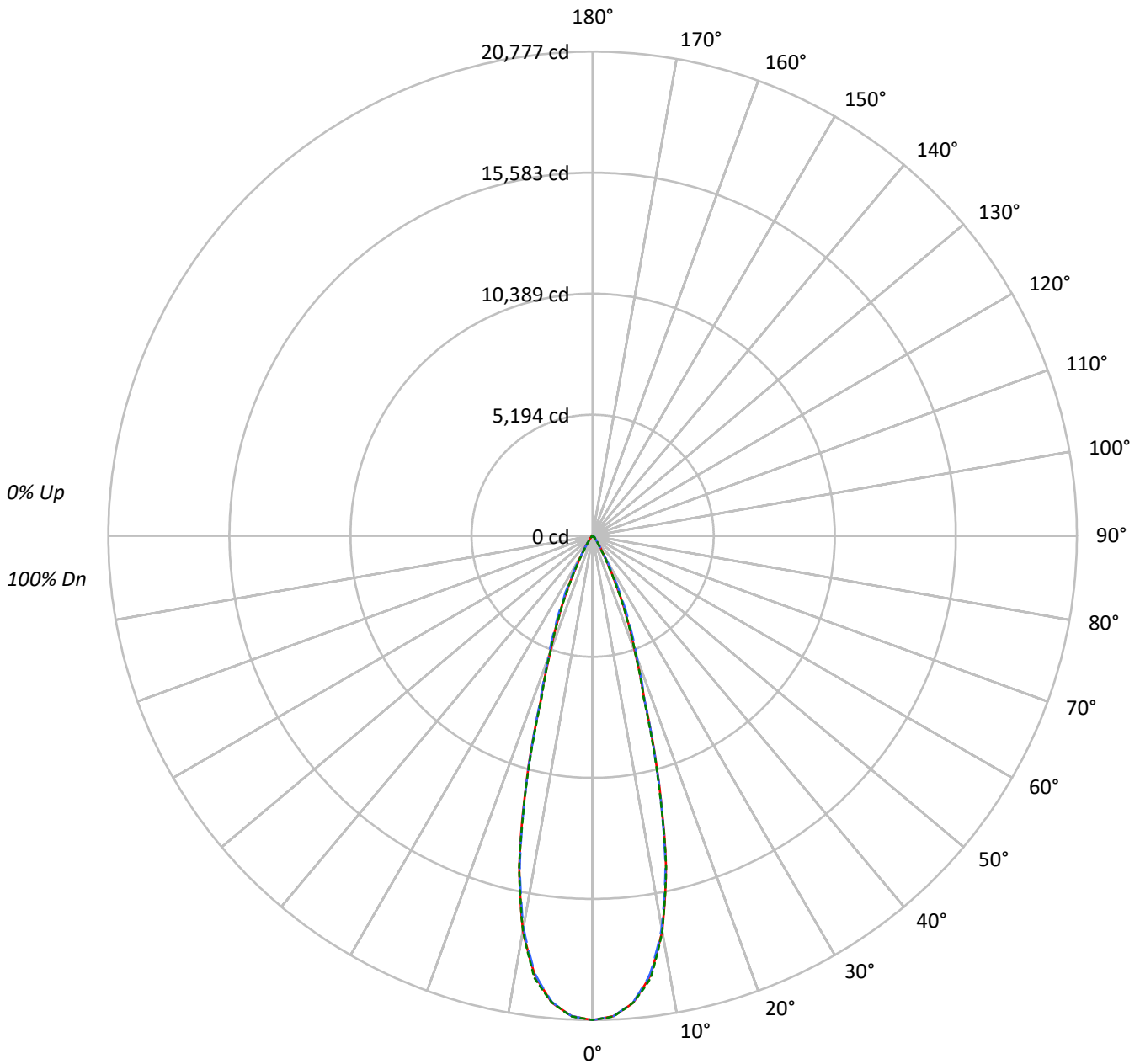
Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1590319	1590319	1590319
5°	1544660	1542862	1544745
10°	1337913	1328478	1337595
15°	872923	868232	863866
20°	434062	450353	433483
25°	218649	246562	214173
30°	87545	95385	76276
35°	40601	38891	32602
40°	17536	19464	16517
45°	12362	15350	12481
50°	4251	11170	4489
55°	2455	4631	2589
60°	1715	2036	1715
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15350 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1827.0	28.3
10°-20°	2942.4	45.5
20°-30°	1271.5	19.7
30°-40°	289.8	4.5
40°-50°	99.5	1.5
50°-60°	24.3	0.4
60°-70°	6.3	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°	6040.9	93.5
0°-40°	6330.7	98.0
0°-60°	6454.5	99.9
0°-90°	6461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6461.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20777	20777	20777	20777	20777	
5°	20103	20084	20080	20122	20104	1829
15°	11016	10883	10956	10921	10901	2950
25°	2589	2687	2919	2618	2536	1239
35°	434	444	416	413	349	295
45°	114	142	142	142	115	81
55°	18	19	35	20	19	18
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°	20776.7	20776.7	20776.7	20776.7	20776.7
2.5°	20639.0	20624.7	20632.9	20643.1	20647.1
5°	20103.4	20084.1	20080.0	20121.8	20104.5
7.5°	19023.2	18995.7	18953.8	19048.7	19137.4
10°	17213.6	17183.0	17092.2	17137.1	17209.5
12.5°	14542.0	14443.1	14441.1	14583.9	14564.5
15°	11015.7	10883.1	10956.5	10920.8	10901.4
17.5°	7407.7	7356.7	7454.6	7425.1	7297.5
20°	5328.8	5342.1	5528.8	5434.9	5321.7
22.5°	3888.5	3936.4	4157.8	3916.0	3827.3
25°	2588.9	2686.9	2919.4	2618.5	2535.9
27.5°	1592.3	1637.2	1872.8	1571.9	1527.0
30°	990.5	968.0	1079.2	926.2	863.0
32.5°	649.8	621.2	656.9	589.6	538.6
35°	434.5	443.7	416.2	413.1	348.9
37.5°	271.3	312.1	275.4	293.8	224.4
40°	175.5	226.5	194.8	215.2	165.3
42.5°	143.8	174.4	160.2	170.4	146.9
45°	114.2	141.8	141.8	141.8	115.3
47.5°	63.2	94.9	121.4	96.9	67.3
50°	35.7	47.9	93.8	50.0	37.7
52.5°	24.5	27.5	64.3	28.6	25.5
55°	18.4	19.4	34.7	20.4	19.4
57.5°	14.3	15.3	18.4	15.3	14.3
60°	11.2	11.2	13.3	12.2	11.2
62.5°	8.2	8.2	9.2	8.2	8.2
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
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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