

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P754547

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBCSSQMW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P754547  
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-EU4DR3070959024-4LBCSSQMW  
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

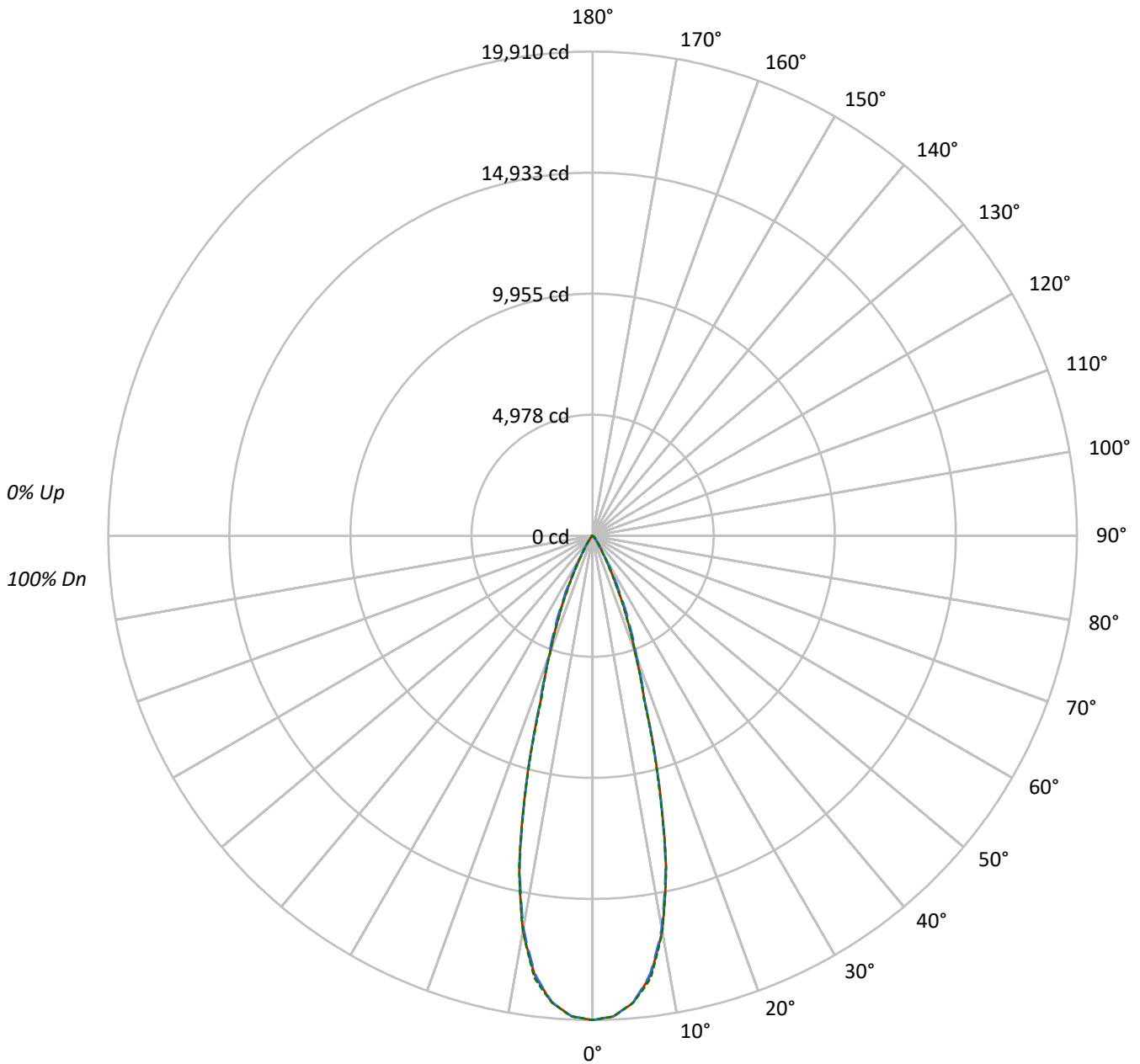
Lumens per Lamp: N/A  
Luminaire Lumens: 6192.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

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	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°	1523987	1523987	1523987
5°	1480234	1478505	1480310
10°	1282107	1273068	1281804
15°	836511	832018	827834
20°	415962	431561	415400
25°	209528	236283	205237
30°	83895	91407	73094
35°	38909	37265	31238
40°	16797	18655	15827
45°	11853	14711	11961
50°	4073	10705	4311
55°	2349	4431	2482
60°	1653	1944	1653
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14711 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1750.8	28.3
10°-20°	2819.7	45.5
20°-30°	1218.5	19.7
30°-40°	277.7	4.5
40°-50°	95.4	1.5
50°-60°	23.3	0.4
60°-70°	6.0	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°	5788.9	93.5
0°-40°	6066.6	98.0
0°-60°	6185.3	99.9
0°-90°	6192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6192.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19910	19910	19910	19910	19910	
5°	19265	19246	19242	19282	19266	1752
15°	10556	10429	10500	10465	10447	2827
25°	2481	2575	2798	2509	2430	1188
35°	416	425	399	396	334	282
45°	110	136	136	136	110	78
55°	18	19	33	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°	19910.1	19910.1	19910.1	19910.1	19910.1
2.5°	19778.1	19764.4	19772.2	19782.0	19785.9
5°	19264.9	19246.3	19242.4	19282.5	19265.9
7.5°	18229.7	18203.3	18163.3	18254.2	18339.2
10°	16495.6	16466.3	16379.3	16422.3	16491.7
12.5°	13935.5	13840.7	13838.7	13975.6	13957.0
15°	10556.2	10429.1	10499.5	10465.3	10446.7
17.5°	7098.7	7049.9	7143.7	7115.4	6993.2
20°	5106.6	5119.3	5298.1	5208.2	5099.7
22.5°	3726.3	3772.2	3984.4	3752.7	3667.6
25°	2480.9	2574.8	2797.7	2509.3	2430.1
27.5°	1525.9	1568.9	1794.7	1506.4	1463.3
30°	949.2	927.7	1034.2	887.6	827.0
32.5°	622.7	595.3	629.5	565.0	516.1
35°	416.4	425.2	398.8	395.9	334.3
37.5°	260.0	299.1	263.9	281.5	215.1
40°	168.1	217.0	186.7	206.3	158.4
42.5°	137.8	167.2	153.5	163.2	140.8
45°	109.5	135.9	135.9	135.9	110.5
47.5°	60.6	90.9	116.3	92.9	64.5
50°	34.2	45.9	89.9	47.9	36.2
52.5°	23.5	26.4	61.6	27.4	24.4
55°	17.6	18.6	33.2	19.6	18.6
57.5°	13.7	14.7	17.6	14.7	13.7
60°	10.8	10.8	12.7	11.7	10.8
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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