

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: P755337

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755337  
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: LD4D90BD010-EU4DR3070959024-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

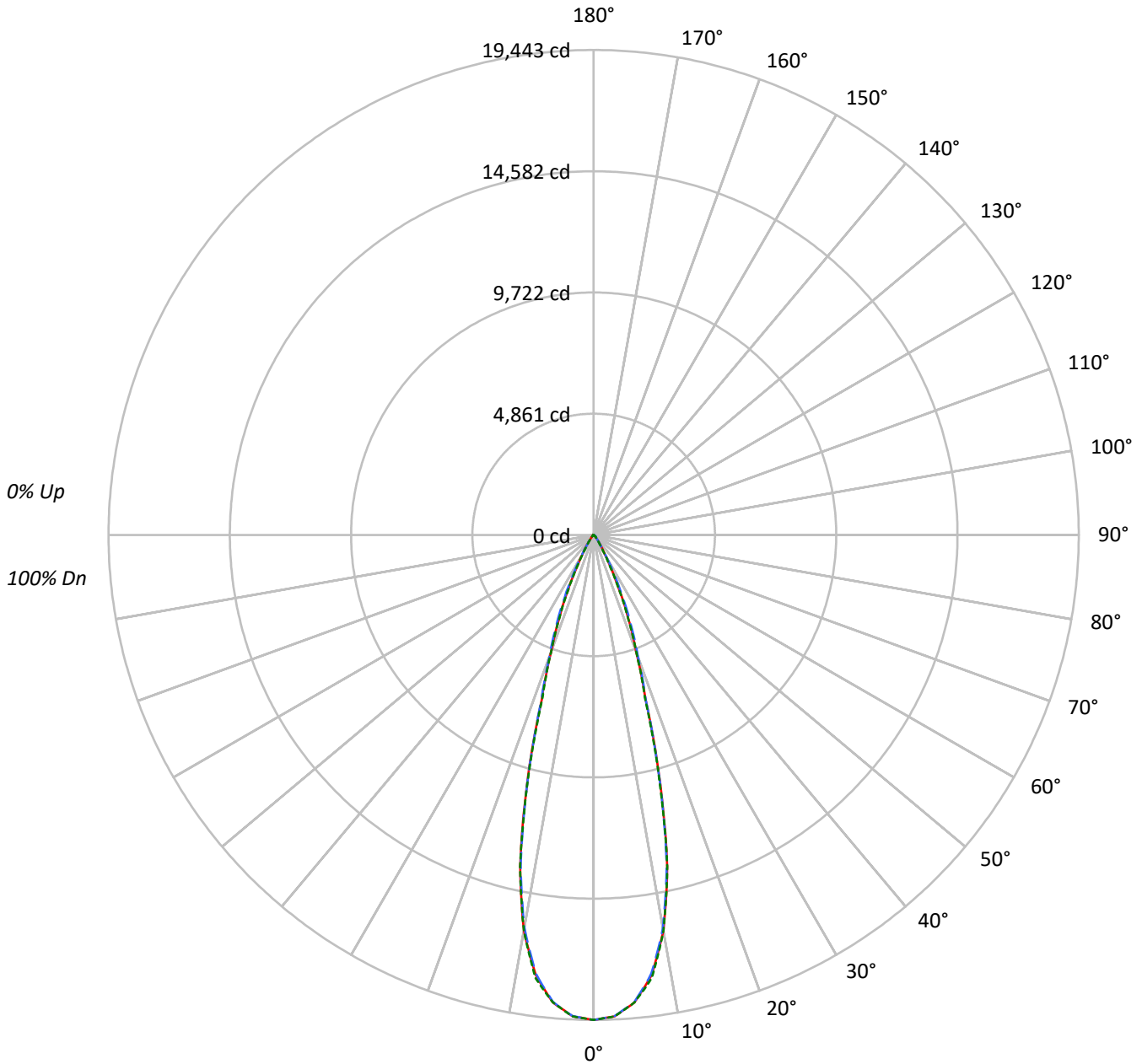
Lumens per Lamp: N/A  
Luminaire Lumens: 6046.7 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 98.9  
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°	1488241	1488241	1488241
5°	1445519	1443836	1445596
10°	1252036	1243214	1251740
15°	816890	812508	808419
20°	406204	421444	405658
25°	204621	230735	200423
30°	81924	89269	71379
35°	38003	36396	30509
40°	16407	18215	15448
45°	11572	14365	11680
50°	3977	10455	4204
55°	2295	4337	2415
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	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: 14365 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1709.7	28.3
10°-20°	2753.5	45.5
20°-30°	1189.9	19.7
30°-40°	271.2	4.5
40°-50°	93.1	1.5
50°-60°	22.7	0.4
60°-70°	5.9	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°	5653.1	93.5
0°-40°	5924.3	98.0
0°-60°	6040.2	99.9
0°-90°	6046.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6046.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19443	19443	19443	19443	19443	
5°	18813	18795	18791	18830	18814	1711
15°	10309	10184	10253	10220	10202	2760
25°	2423	2514	2732	2450	2373	1160
35°	407	415	390	387	326	276
45°	107	133	133	133	108	76
55°	17	18	32	19	18	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°	19443.1	19443.1	19443.1	19443.1	19443.1
2.5°	19314.3	19300.9	19308.5	19318.1	19321.9
5°	18813.1	18795.0	18791.2	18830.3	18814.1
7.5°	17802.2	17776.4	17737.3	17826.1	17909.1
10°	16108.7	16080.1	15995.2	16037.2	16104.9
12.5°	13608.7	13516.1	13514.2	13647.8	13629.7
15°	10308.6	10184.5	10253.3	10219.9	10201.7
17.5°	6932.2	6884.5	6976.2	6948.5	6829.2
20°	4986.8	4999.2	5173.9	5086.1	4980.1
22.5°	3638.9	3683.8	3890.9	3664.7	3581.6
25°	2422.8	2514.4	2732.0	2450.4	2373.1
27.5°	1490.1	1532.1	1752.6	1471.0	1429.0
30°	926.9	905.9	1010.0	866.8	807.6
32.5°	608.1	581.3	614.8	551.8	504.0
35°	406.7	415.2	389.5	386.6	326.5
37.5°	253.9	292.1	257.7	274.9	210.0
40°	164.2	211.9	182.3	201.4	154.6
42.5°	134.6	163.2	149.9	159.4	137.5
45°	106.9	132.7	132.7	132.7	107.9
47.5°	59.2	88.8	113.6	90.7	63.0
50°	33.4	44.9	87.8	46.8	35.3
52.5°	22.9	25.8	60.1	26.7	23.9
55°	17.2	18.1	32.5	19.1	18.1
57.5°	13.4	14.3	17.2	14.3	13.4
60°	10.5	10.5	12.4	11.5	10.5
62.5°	7.6	7.6	8.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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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