

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: P748317

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748317  
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: LD4D45BD010-EU4DR3040509024-4LBSQW1MW  
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**

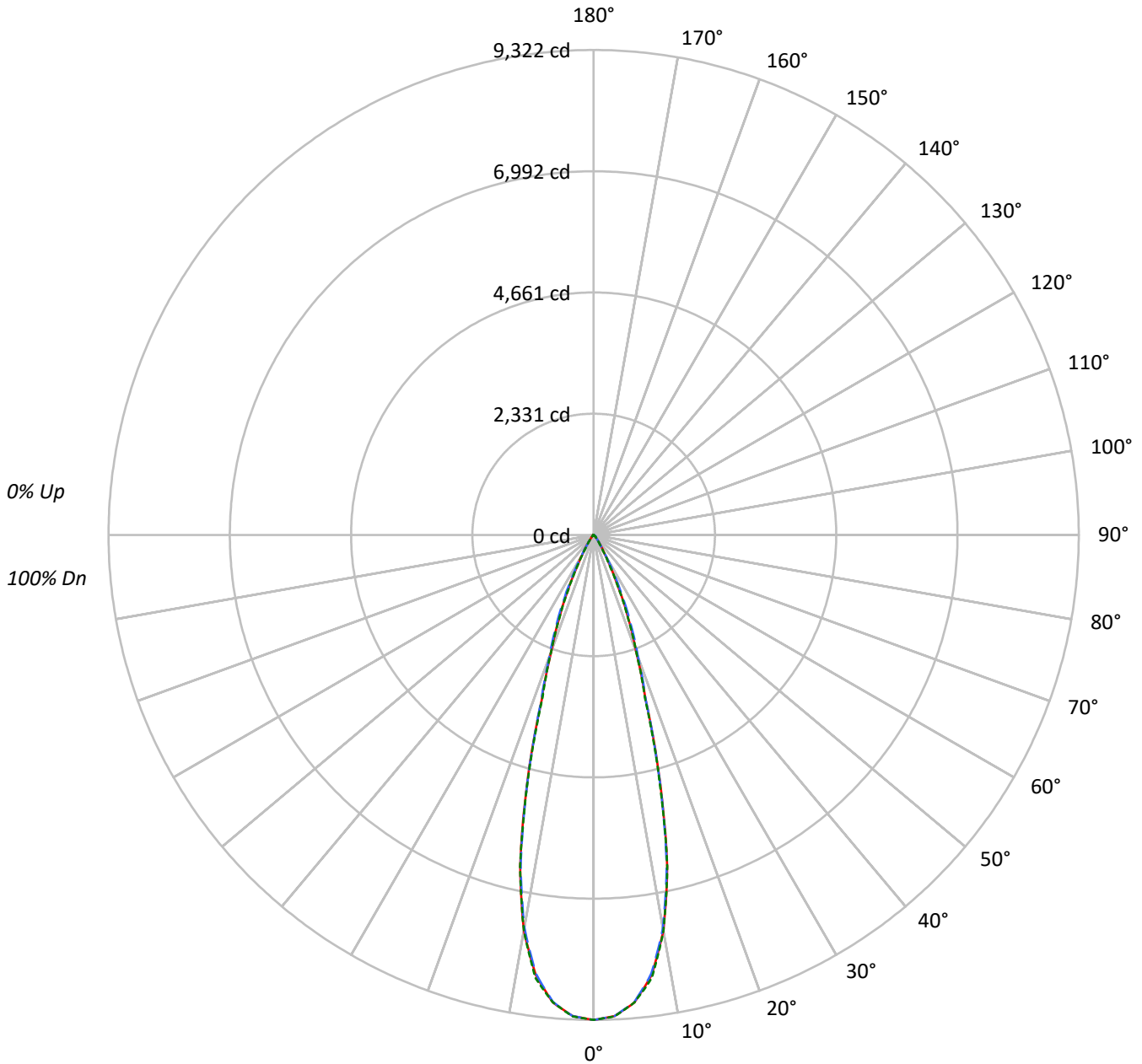
Lumens per Lamp: N/A  
Luminaire Lumens: 2899.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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																			
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°	713522	713522	713522
5°	693036	692229	693074
10°	600280	596044	600132
15°	391653	389545	387588
20°	194753	202059	194492
25°	98104	110621	96094
30°	39278	42796	34223
35°	18221	17446	14624
40°	7864	8733	7404
45°	5553	6885	5596
50°	1905	5013	2012
55°	1094	2082	1161
60°	765	903	765
65°	489	489	489
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 6885 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.7	28.3
10°-20°	1320.2	45.5
20°-30°	570.5	19.7
30°-40°	130.0	4.5
40°-50°	44.6	1.5
50°-60°	10.9	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2710.3	93.5
0°-40°	2840.4	98.0
0°-60°	2895.9	99.9
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9322	9322	9322	9322	9322	
5°	9020	9011	9009	9028	9020	820
15°	4942	4883	4916	4900	4891	1323
25°	1162	1206	1310	1175	1138	556
35°	195	199	187	185	156	132
45°	51	64	64	64	52	36
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9321.8	9321.8	9321.8	9321.8	9321.8
2.5°	9260.0	9253.6	9257.3	9261.8	9263.7
5°	9019.7	9011.0	9009.2	9028.0	9020.2
7.5°	8535.1	8522.7	8503.9	8546.5	8586.3
10°	7723.2	7709.4	7668.7	7688.8	7721.3
12.5°	6524.5	6480.1	6479.2	6543.3	6534.6
15°	4942.4	4882.9	4915.8	4899.8	4891.1
17.5°	3323.6	3300.7	3344.6	3331.4	3274.2
20°	2390.9	2396.8	2480.6	2438.5	2387.7
22.5°	1744.6	1766.1	1865.5	1757.0	1717.2
25°	1161.6	1205.5	1309.8	1174.8	1137.8
27.5°	714.4	734.6	840.3	705.3	685.1
30°	444.4	434.3	484.2	415.6	387.2
32.5°	291.5	278.7	294.7	264.5	241.6
35°	195.0	199.1	186.7	185.4	156.5
37.5°	121.7	140.0	123.6	131.8	100.7
40°	78.7	101.6	87.4	96.6	74.1
42.5°	64.5	78.3	71.9	76.4	65.9
45°	51.3	63.6	63.6	63.6	51.7
47.5°	28.4	42.6	54.5	43.5	30.2
50°	16.0	21.5	42.1	22.4	16.9
52.5°	11.0	12.4	28.8	12.8	11.4
55°	8.2	8.7	15.6	9.2	8.7
57.5°	6.4	6.9	8.2	6.9	6.4
60°	5.0	5.0	5.9	5.5	5.0
62.5°	3.7	3.7	4.1	3.7	3.7
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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