

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: P748889

Luminaire Tested: LD4D45BD010-EU4DR6540509030-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D45BD010-EU4DR6540509030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3248.4 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

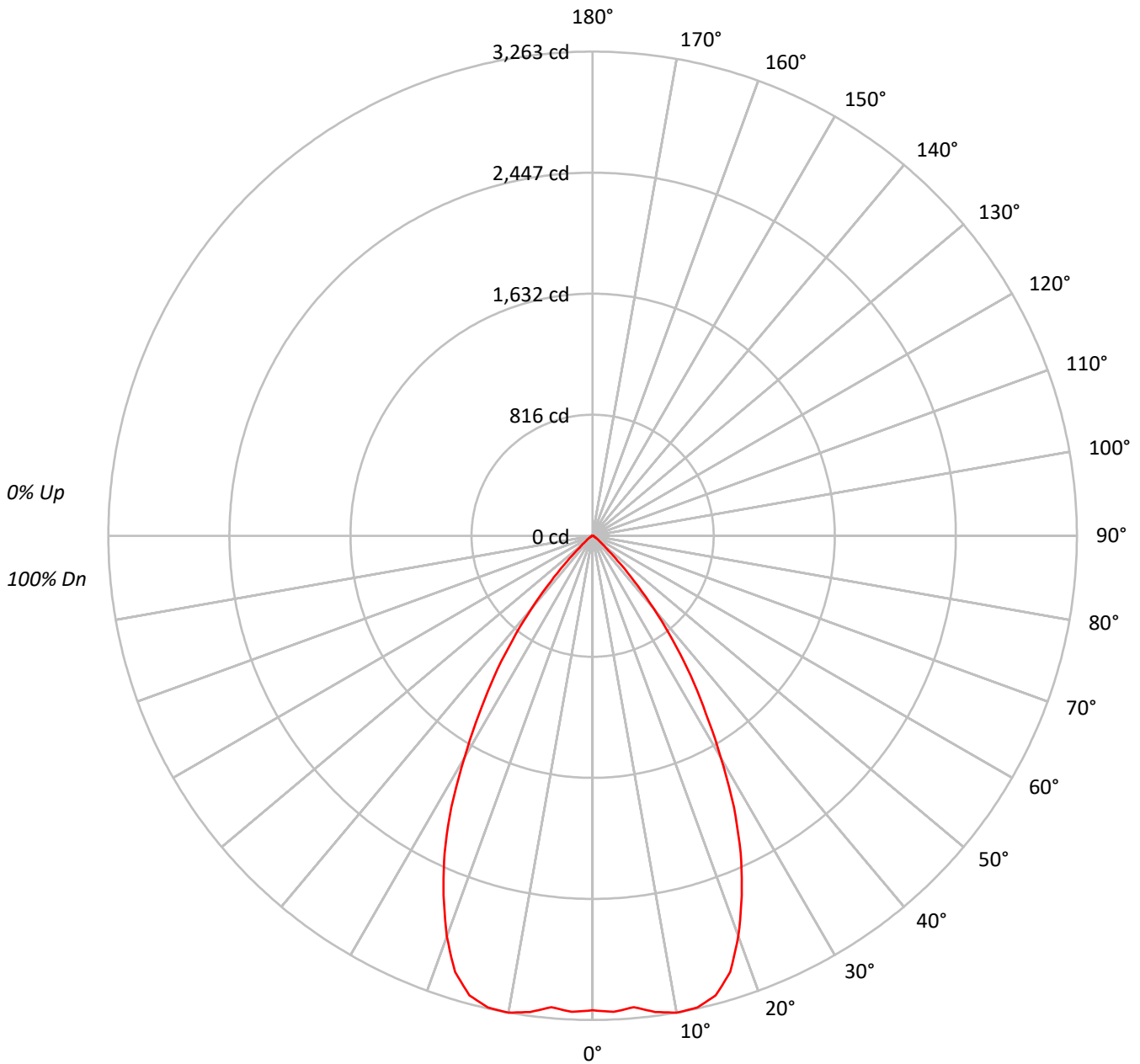
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50

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

	0°
0°	349449
5°	349742
10°	362051
15°	362647
20°	333878
25°	284488
30°	217783
35°	153857
40°	90827
45°	36868
50°	13360
55°	7448
60°	4261
65°	2353
70°	2460
75°	1900
80°	2013
85°	1755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 36868 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.0	9.5
10°-20°	888.3	27.3
20°-30°	1065.9	32.8
30°-40°	716.3	22.1
40°-50°	214.4	6.6
50°-60°	37.8	1.2
60°-70°	10.8	0.3
70°-80°	5.3	0.2
80°-90°	1.7	0.1
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°	2262.2	69.6
0°-40°	2978.5	91.7
0°-60°	3230.7	99.5
0°-90°	3248.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3198	
5°	3189	308
15°	3206	888
25°	2360	1066
35°	1154	716
45°	239	214
55°	39	38
65°	9	11
75°	4	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3198.3
2.5°	3211.9
5°	3188.8
7.5°	3236.9
10°	3263.3
12.5°	3256.9
15°	3206.0
17.5°	3081.5
20°	2871.5
22.5°	2624.3
25°	2359.8
27.5°	2061.2
30°	1726.2
32.5°	1422.6
35°	1153.5
37.5°	887.6
40°	636.8
42.5°	415.9
45°	238.6
47.5°	126.4
50°	78.6
52.5°	54.5
55°	39.1
57.5°	28.2
60°	19.5
62.5°	12.7
65°	9.1
67.5°	8.2
70°	7.7
72.5°	5.9
75°	4.5
77.5°	4.1
80°	3.2
82.5°	2.3
85°	1.4
87.5°	0.9
90°	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)