

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: P750450

Luminaire Tested: LD4D55D010-EU4DR6555659035-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR6555659035-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

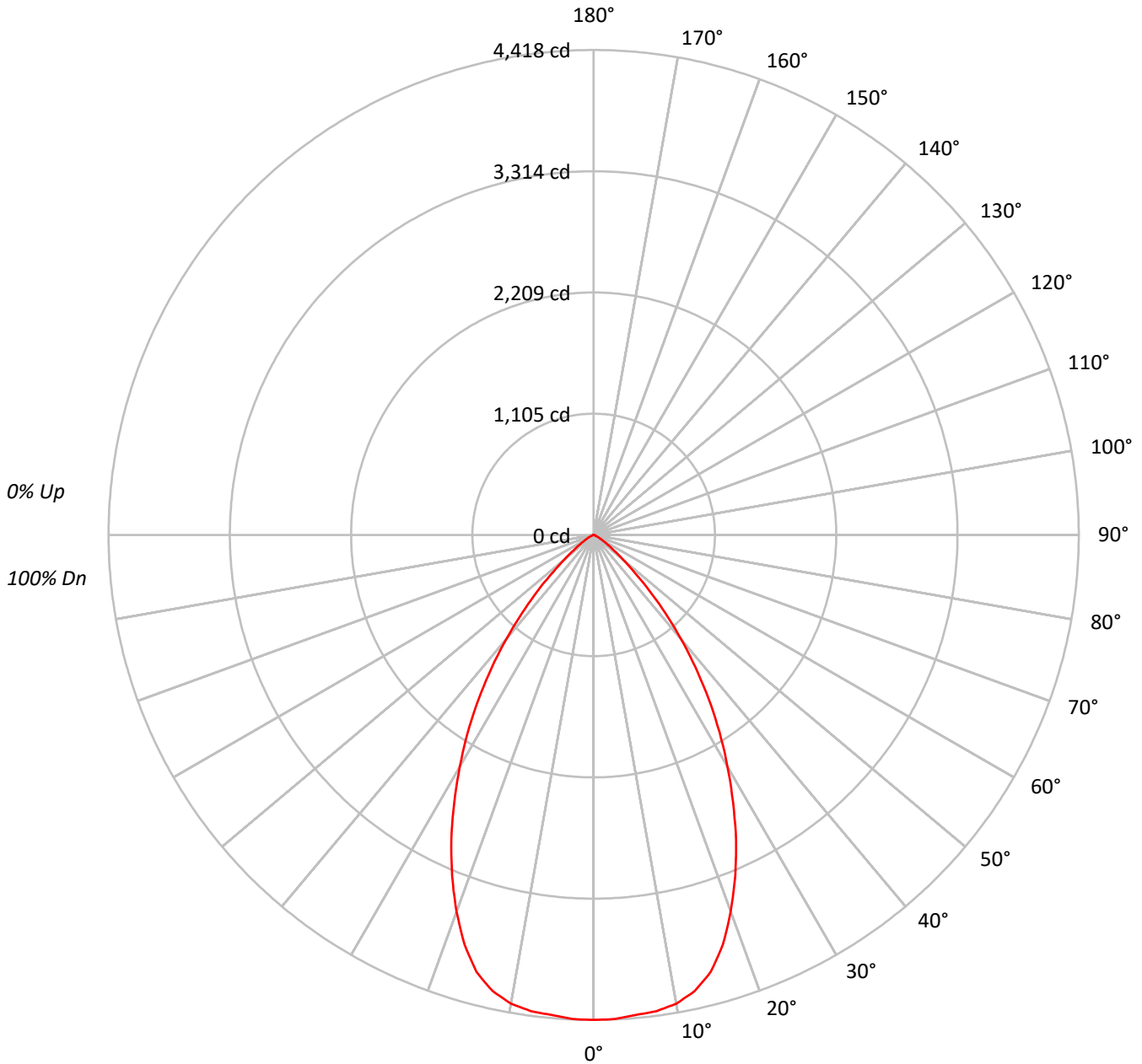
Lumens per Lamp: N/A  
Luminaire Lumens: 4865.4 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.2  
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	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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				

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

	0°
0°	258011
5°	257361
10°	257140
15°	249215
20°	226880
25°	197707
30°	164436
35°	130297
40°	94035
45°	59411
50°	30965
55°	16455
60°	8644
65°	4754
70°	1998
75°	2189
80°	1514
85°	1273

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 59411 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.8	8.6
10°-20°	1144.0	23.5
20°-30°	1398.4	28.7
30°-40°	1134.6	23.3
40°-50°	565.4	11.6
50°-60°	157.7	3.2
60°-70°	35.8	0.7
70°-80°	9.3	0.2
80°-90°	2.4	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°	2960.2	60.8
0°-40°	4094.8	84.2
0°-60°	4817.9	99.0
0°-90°	4865.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4865.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4418	
5°	4390	418
15°	4122	1144
25°	3068	1398
35°	1828	1135
45°	719	565
55°	162	158
65°	34	36
75°	10	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4417.7
2.5°	4414.5
5°	4389.8
7.5°	4375.5
10°	4335.9
12.5°	4255.4
15°	4121.7
17.5°	3912.6
20°	3650.4
22.5°	3367.3
25°	3068.0
27.5°	2748.0
30°	2438.3
32.5°	2132.6
35°	1827.5
37.5°	1523.0
40°	1233.4
42.5°	962.1
45°	719.3
47.5°	501.2
50°	340.8
52.5°	235.0
55°	161.6
57.5°	109.1
60°	74.0
62.5°	51.3
65°	34.4
67.5°	17.5
70°	11.7
72.5°	11.0
75°	9.7
77.5°	6.5
80°	4.5
82.5°	3.2
85°	1.9
87.5°	1.3
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)