

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: P750470

Luminaire Tested: LD4D55D010-EU4DR6555659040-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750470  
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-EU4DR6555659040-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4956.4 lumens  
Efficiency: N/A  
Efficacy: 85.2 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

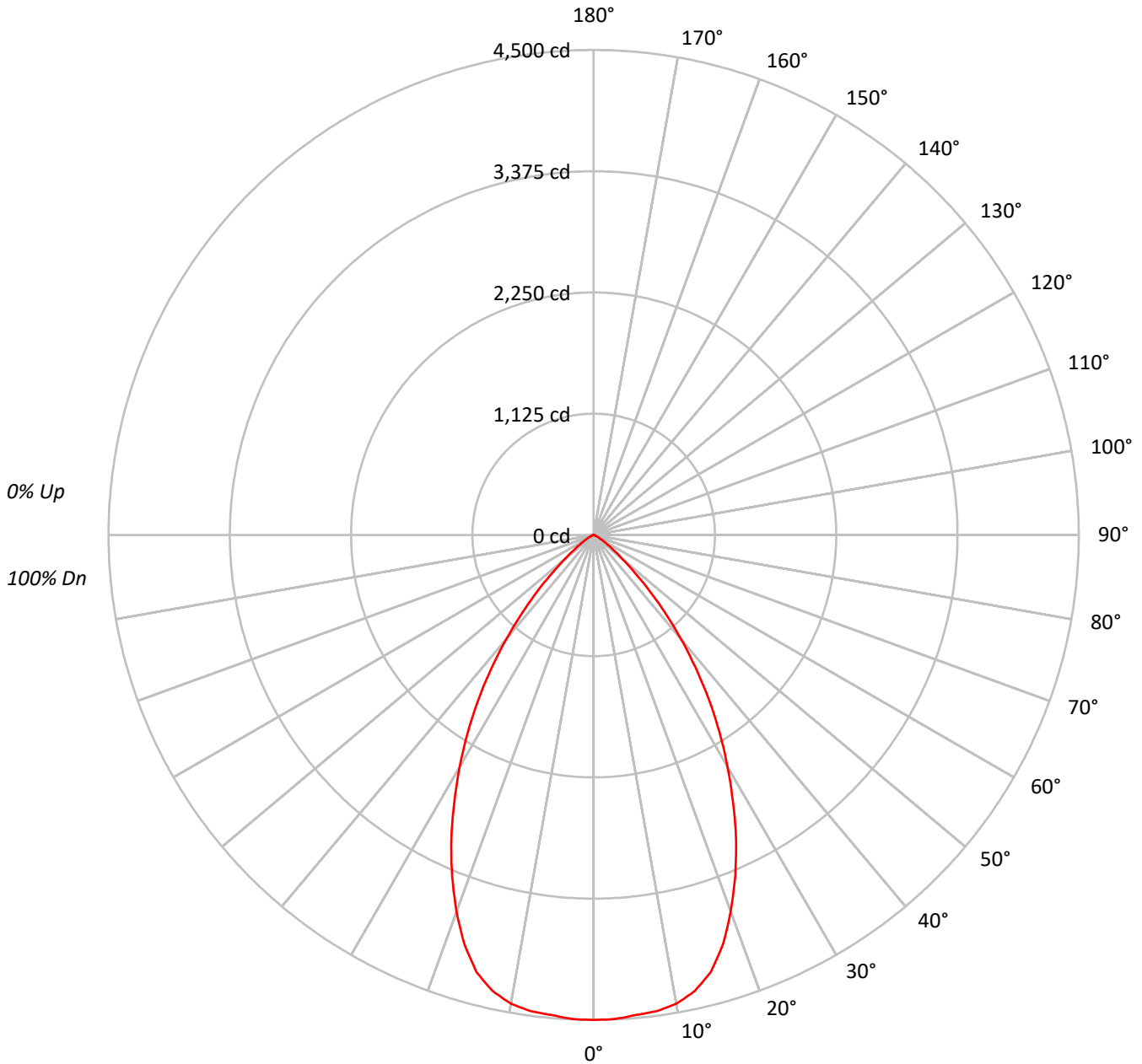
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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	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°	262835
5°	262174
10°	261949
15°	253871
20°	231119
25°	201406
30°	167512
35°	132728
40°	95797
45°	60518
50°	31547
55°	16770
60°	8807
65°	4851
70°	2032
75°	2234
80°	1547
85°	1340

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 60518 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.6	8.6
10°-20°	1165.4	23.5
20°-30°	1424.5	28.7
30°-40°	1155.8	23.3
40°-50°	576.0	11.6
50°-60°	160.7	3.2
60°-70°	36.5	0.7
70°-80°	9.5	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°	3015.5	60.8
0°-40°	4171.4	84.2
0°-60°	4908.0	99.0
0°-90°	4956.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4956.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4500	
5°	4472	426
15°	4199	1165
25°	3125	1425
35°	1862	1156
45°	733	576
55°	165	161
65°	35	37
75°	10	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4500.3
2.5°	4497.0
5°	4471.9
7.5°	4457.3
10°	4417.0
12.5°	4335.0
15°	4198.7
17.5°	3985.8
20°	3718.6
22.5°	3430.3
25°	3125.4
27.5°	2799.4
30°	2483.9
32.5°	2172.4
35°	1861.6
37.5°	1551.5
40°	1256.5
42.5°	980.1
45°	732.7
47.5°	510.5
50°	347.2
52.5°	239.4
55°	164.7
57.5°	111.1
60°	75.4
62.5°	52.2
65°	35.1
67.5°	17.9
70°	11.9
72.5°	11.2
75°	9.9
77.5°	6.6
80°	4.6
82.5°	3.3
85°	2.0
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)