

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: P750431

Luminaire Tested: LD4D55D010-EU4DR6555659027-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750431  
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-EU4DR6555659027-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4548.2 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

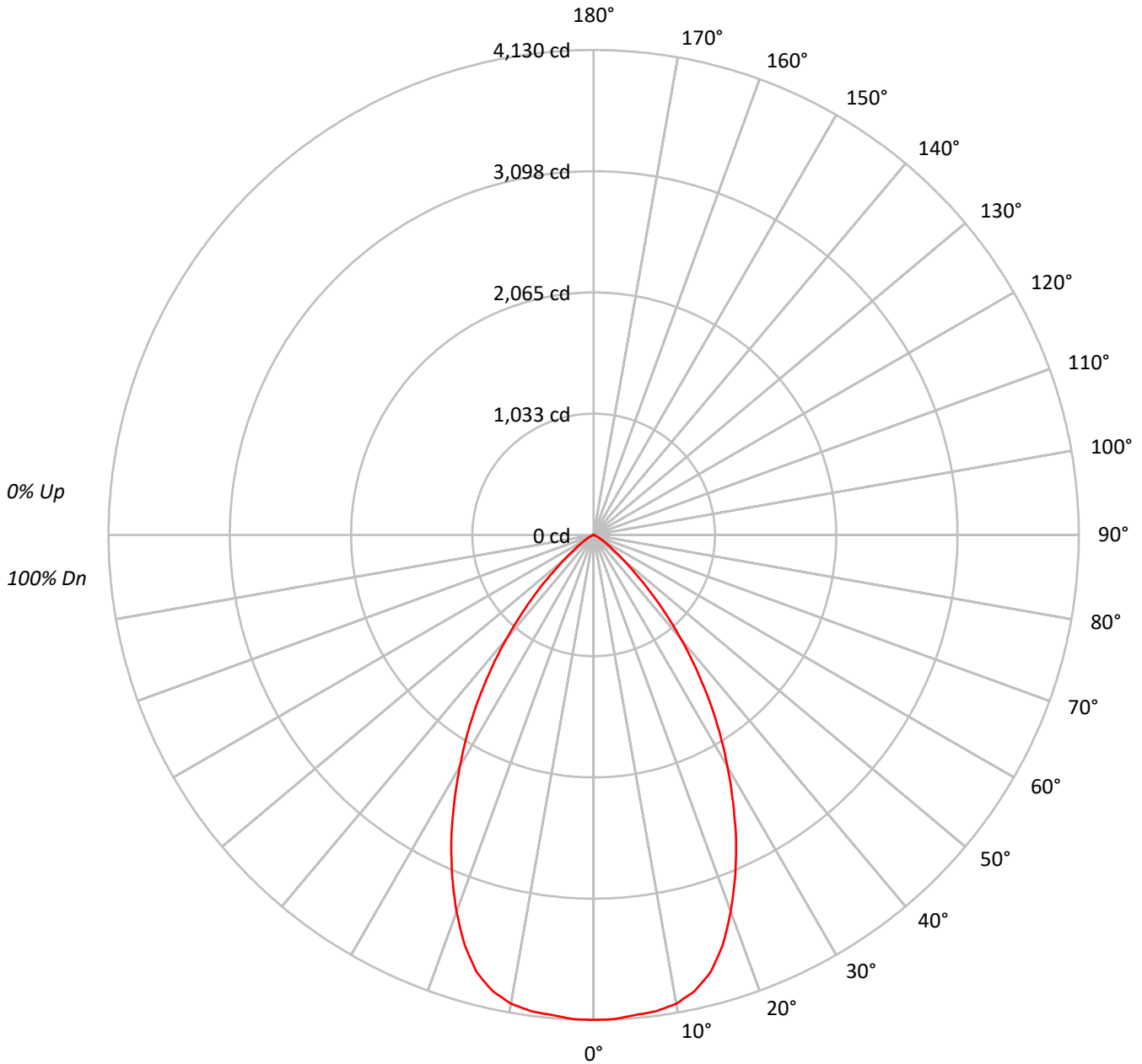
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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									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	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°	241190
5°	240582
10°	240374
15°	232968
20°	212088
25°	184818
30°	153720
35°	121798
40°	87906
45°	55537
50°	28948
55°	15386
60°	8083
65°	4450
70°	1861
75°	2053
80°	1413
85°	1206

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 55537 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.5	8.6
10°-20°	1069.4	23.5
20°-30°	1307.2	28.7
30°-40°	1060.6	23.3
40°-50°	528.5	11.6
50°-60°	147.4	3.2
60°-70°	33.5	0.7
70°-80°	8.7	0.2
80°-90°	2.2	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°	2767.2	60.8
0°-40°	3827.8	84.2
0°-60°	4503.8	99.0
0°-90°	4548.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4548.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4130	
5°	4104	391
15°	3853	1069
25°	2868	1307
35°	1708	1061
45°	672	529
55°	151	147
65°	32	34
75°	9	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4129.7
2.5°	4126.7
5°	4103.6
7.5°	4090.3
10°	4053.2
12.5°	3978.0
15°	3853.0
17.5°	3657.6
20°	3412.4
22.5°	3147.8
25°	2868.0
27.5°	2568.8
30°	2279.4
32.5°	1993.5
35°	1708.3
37.5°	1423.7
40°	1153.0
42.5°	899.4
45°	672.4
47.5°	468.5
50°	318.6
52.5°	219.7
55°	151.1
57.5°	102.0
60°	69.2
62.5°	47.9
65°	32.2
67.5°	16.4
70°	10.9
72.5°	10.3
75°	9.1
77.5°	6.1
80°	4.2
82.5°	3.0
85°	1.8
87.5°	1.2
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)