

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: P750145

Luminaire Tested: LD4D55D010-EU4DR4555659035-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P750145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D55D010-EU4DR4555659035-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5582.6 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

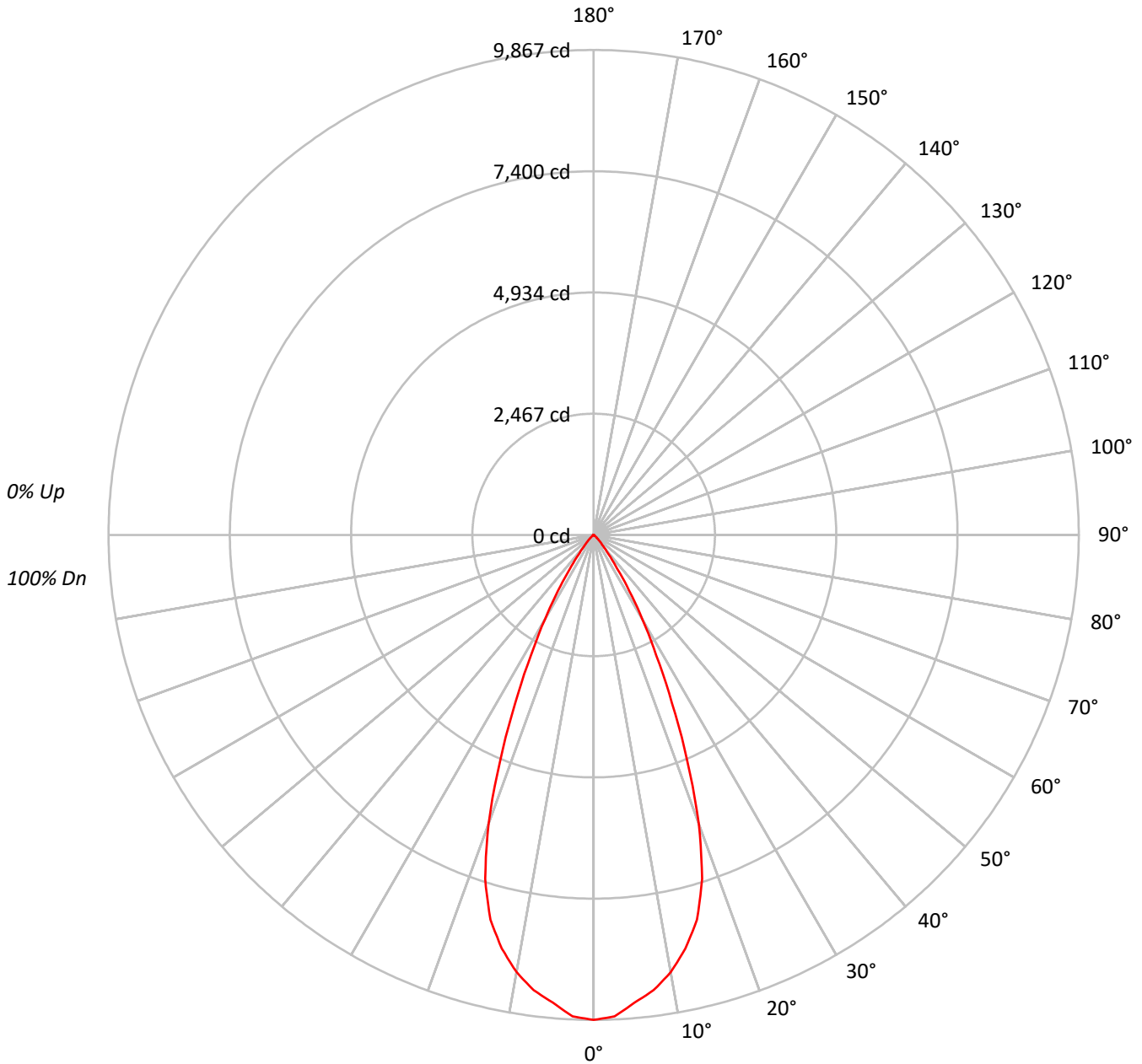
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95																											
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90																											
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85																											
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81																											
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77																											
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73																											
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69																											
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66																											
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																											
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60																											

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

	0°
0°	1078109
5°	1047415
10°	1002100
15°	917126
20°	727601
25°	454255
30°	250371
35°	112415
40°	44272
45°	20860
50°	9893
55°	5181
60°	2535
65°	595
70°	256
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20860 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	897.3	16.1
10°-20°	2208.4	39.6
20°-30°	1748.8	31.3
30°-40°	582.4	10.4
40°-50°	115.6	2.1
50°-60°	26.3	0.5
60°-70°	3.8	0.1
70°-80°	0.1	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°	4854.5	87.0
0°-40°	5436.9	97.4
0°-60°	5578.7	99.9
0°-90°	5582.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5582.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9867	
5°	9550	897
15°	8108	2208
25°	3768	1749
35°	843	582
45°	135	116
55°	27	26
65°	2	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9867.3
2.5°	9802.9
5°	9549.9
7.5°	9341.1
10°	9032.3
12.5°	8620.9
15°	8107.9
17.5°	7336.5
20°	6257.7
22.5°	4972.5
25°	3768.0
27.5°	2759.0
30°	1984.5
32.5°	1349.6
35°	842.8
37.5°	499.8
40°	310.4
42.5°	204.1
45°	135.0
47.5°	86.9
50°	58.2
52.5°	38.8
55°	27.2
57.5°	17.9
60°	11.6
62.5°	6.2
65°	2.3
67.5°	0.8
70°	0.8
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)