

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: P745716

Luminaire Tested: LD4D25D010-EU4DR7020359040-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D25D010-EU4DR7020359040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1611.8 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.1  
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



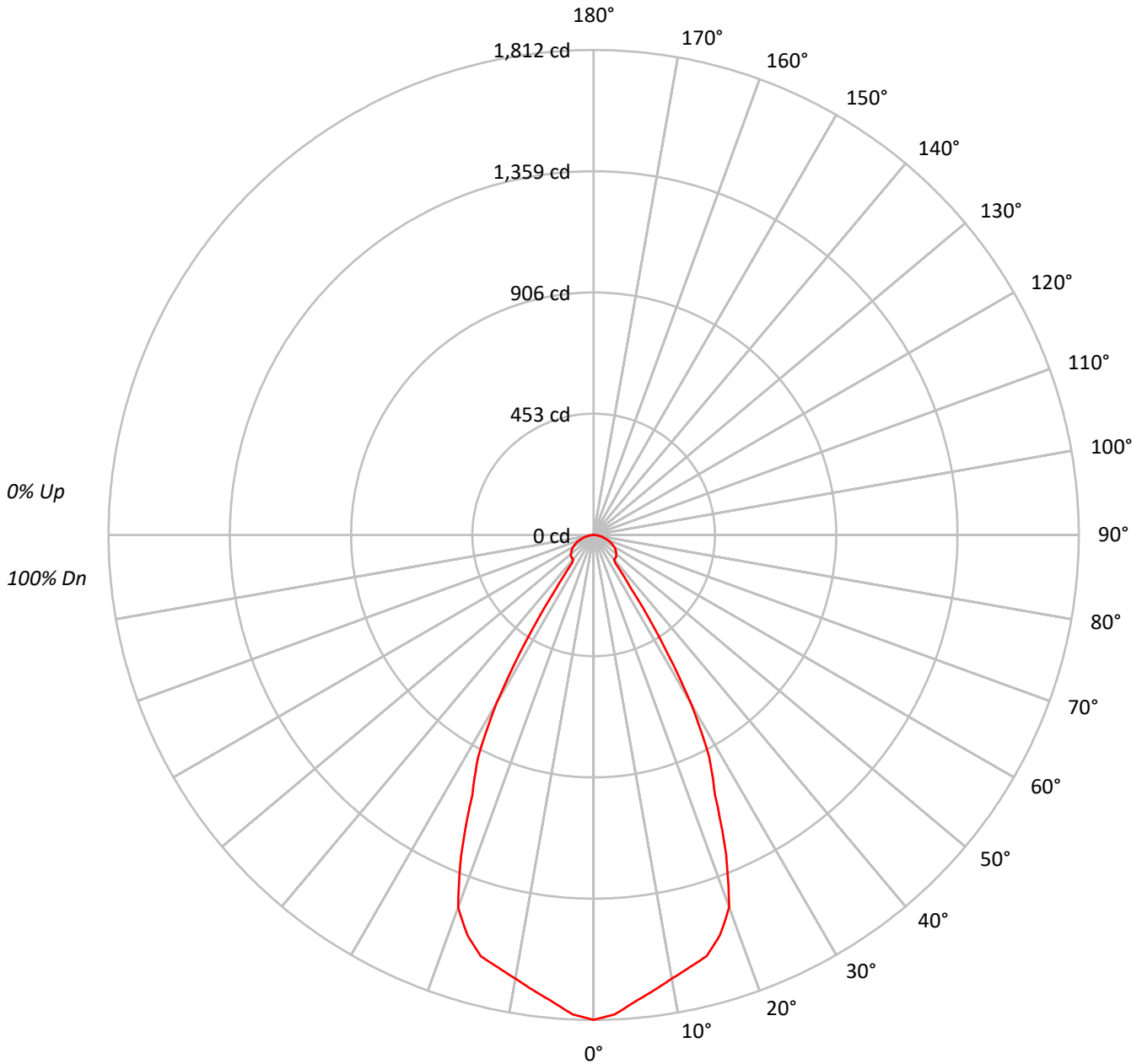
Downlight



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			

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

	0°
0°	197991
5°	192112
10°	186756
15°	184310
20°	172107
25°	129284
30°	91393
35°	32372
40°	17016
45°	18125
50°	18783
55°	19125
60°	19252
65°	18847
70°	17762
75°	16464
80°	14661
85°	11909

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 19257 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	10.3
10°-20°	453.2	28.1
20°-30°	499.1	31.0
30°-40°	190.7	11.8
40°-50°	90.0	5.6
50°-60°	89.5	5.6
60°-70°	71.7	4.4
70°-80°	41.2	2.6
80°-90°	11.2	0.7
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°	1117.5	69.3
0°-40°	1308.2	81.2
0°-60°	1487.7	92.3
0°-90°	1611.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1812	
5°	1752	165
15°	1629	453
25°	1072	499
35°	243	191
45°	117	90
55°	100	90
65°	73	72
75°	39	41
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1812.1
2.5°	1793.2
5°	1751.6
7.5°	1716.8
10°	1683.3
12.5°	1654.9
15°	1629.4
17.5°	1567.7
20°	1480.2
22.5°	1291.4
25°	1072.4
27.5°	933.6
30°	724.4
32.5°	467.9
35°	242.7
37.5°	131.1
40°	119.3
42.5°	118.5
45°	117.3
47.5°	114.8
50°	110.5
52.5°	105.6
55°	100.4
57.5°	94.7
60°	88.1
62.5°	80.6
65°	72.9
67.5°	64.3
70°	55.6
72.5°	47.0
75°	39.0
77.5°	30.7
80°	23.3
82.5°	16.3
85°	9.5
87.5°	3.7
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)