

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: P745691

Luminaire Tested: LD4D25D010-EU4DR7020359030-4LBSQW1MW

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745691  
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-EU4DR7020359030-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1978.7 lumens  
Efficiency: N/A  
Efficacy: 78.8 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



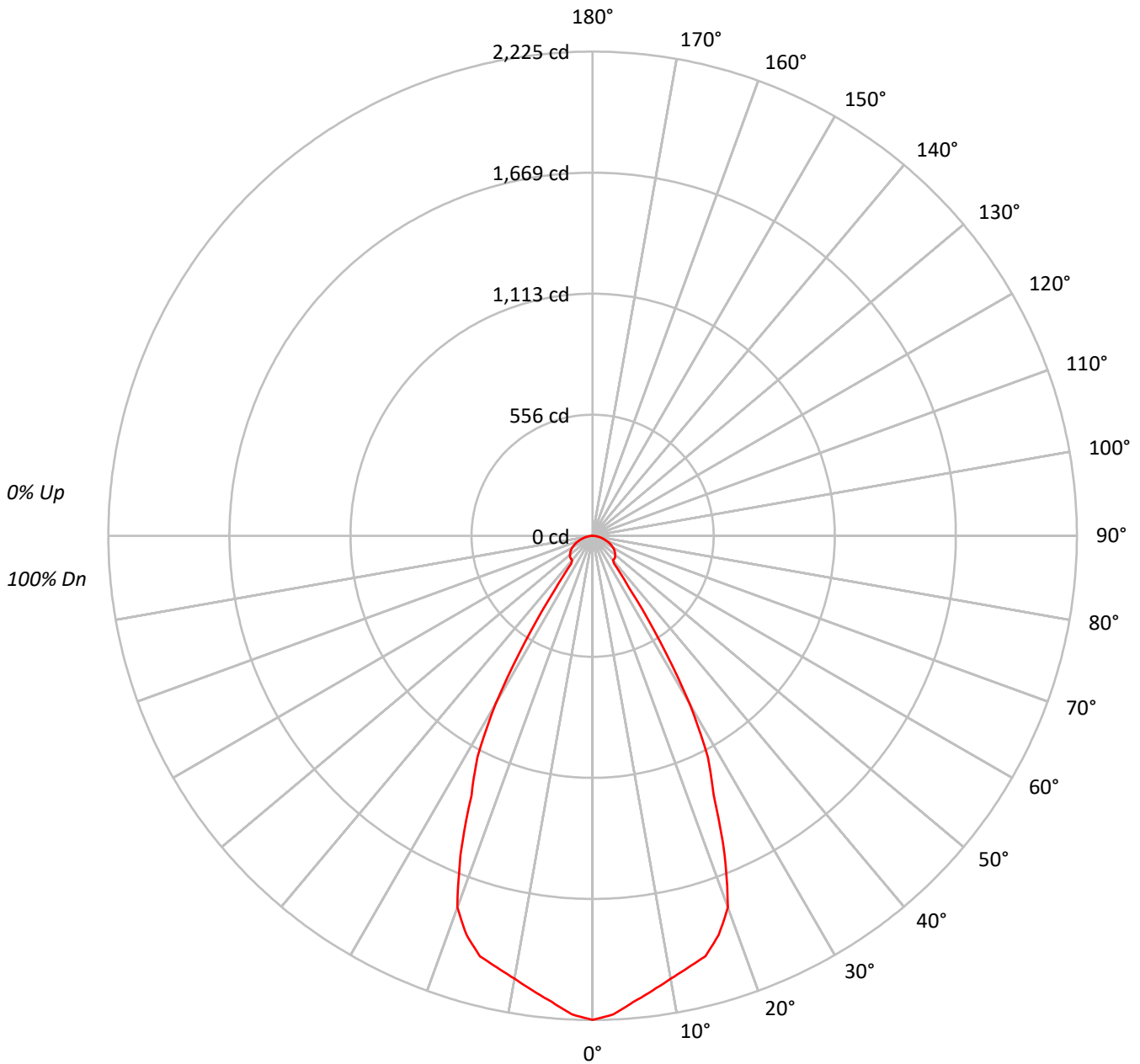
Downlight



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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
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°	243072
5°	235841
10°	229270
15°	226264
20°	211279
25°	158724
30°	112210
35°	39748
40°	20895
45°	22251
50°	23049
55°	23487
60°	23622
65°	23113
70°	21851
75°	20221
80°	17932
85°	14542

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 23650 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.8	10.3
10°-20°	556.3	28.1
20°-30°	612.7	31.0
30°-40°	234.1	11.8
40°-50°	110.5	5.6
50°-60°	109.9	5.6
60°-70°	88.0	4.4
70°-80°	50.6	2.6
80°-90°	13.7	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°	1371.9	69.3
0°-40°	1606.0	81.2
0°-60°	1826.4	92.3
0°-90°	1978.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1978.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2225	
5°	2150	203
15°	2000	556
25°	1317	613
35°	298	234
45°	144	111
55°	123	110
65°	89	88
75°	48	51
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2224.7
2.5°	2201.4
5°	2150.3
7.5°	2107.7
10°	2066.5
12.5°	2031.6
15°	2000.3
17.5°	1924.5
20°	1817.1
22.5°	1585.4
25°	1316.6
27.5°	1146.1
30°	889.4
32.5°	574.5
35°	298.0
37.5°	160.9
40°	146.5
42.5°	145.5
45°	144.0
47.5°	140.9
50°	135.6
52.5°	129.6
55°	123.3
57.5°	116.3
60°	108.1
62.5°	98.9
65°	89.4
67.5°	78.9
70°	68.4
72.5°	57.8
75°	47.9
77.5°	37.7
80°	28.5
82.5°	20.1
85°	11.6
87.5°	4.6
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)