

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: P740639

Luminaire Tested: LD4D05D010-EU4DR650210IC9027-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR650210IC9027-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF 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: 412.6 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.5  
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



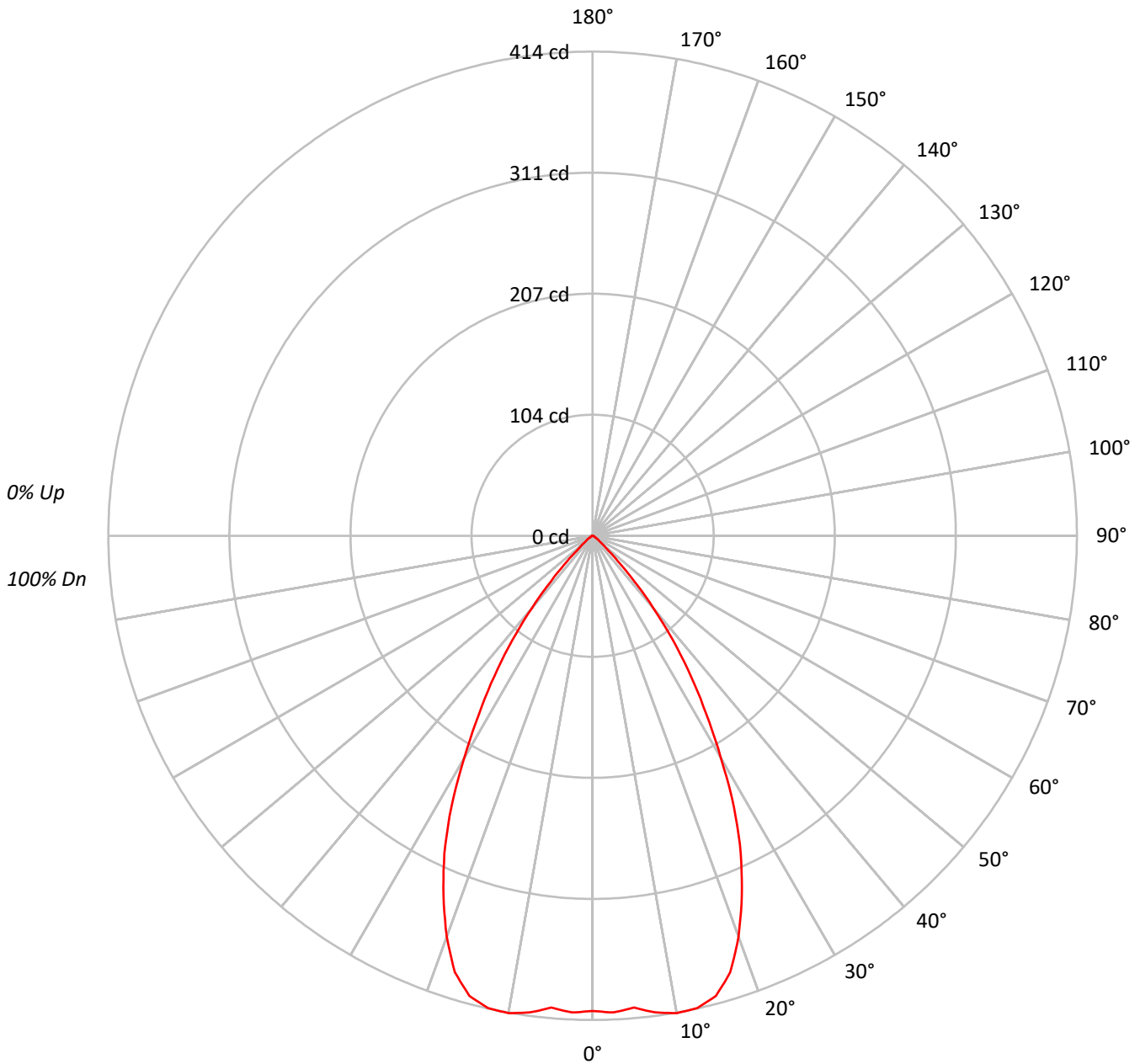
Downlight



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60		
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57		
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53		
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50		

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

	0°
0°	44393
5°	44420
10°	45987
15°	46072
20°	42405
25°	36143
30°	27668
35°	19541
40°	11539
45°	4682
50°	1700
55°	952
60°	546
65°	284
70°	319
75°	253
80°	252
85°	251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4682 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.1	9.5
10°-20°	112.8	27.3
20°-30°	135.4	32.8
30°-40°	91.0	22.1
40°-50°	27.2	6.6
50°-60°	4.8	1.2
60°-70°	1.3	0.3
70°-80°	0.7	0.2
80°-90°	0.2	0.1
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°	287.3	69.6
0°-40°	378.3	91.7
0°-60°	410.4	99.5
0°-90°	412.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	406	
5°	405	39
15°	407	113
25°	300	135
35°	146	91
45°	30	27
55°	5	5
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	406.3
2.5°	408.0
5°	405.0
7.5°	411.1
10°	414.5
12.5°	413.7
15°	407.3
17.5°	391.4
20°	364.7
22.5°	333.3
25°	299.8
27.5°	261.8
30°	219.3
32.5°	180.7
35°	146.5
37.5°	112.8
40°	80.9
42.5°	52.8
45°	30.3
47.5°	16.0
50°	10.0
52.5°	6.9
55°	5.0
57.5°	3.6
60°	2.5
62.5°	1.6
65°	1.1
67.5°	1.0
70°	1.0
72.5°	0.7
75°	0.6
77.5°	0.5
80°	0.4
82.5°	0.3
85°	0.2
87.5°	0.1
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)