

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: P740451

Luminaire Tested: LD4D05D010-EU4DR500210IC9050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR500210IC9050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 50° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 742.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73  
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



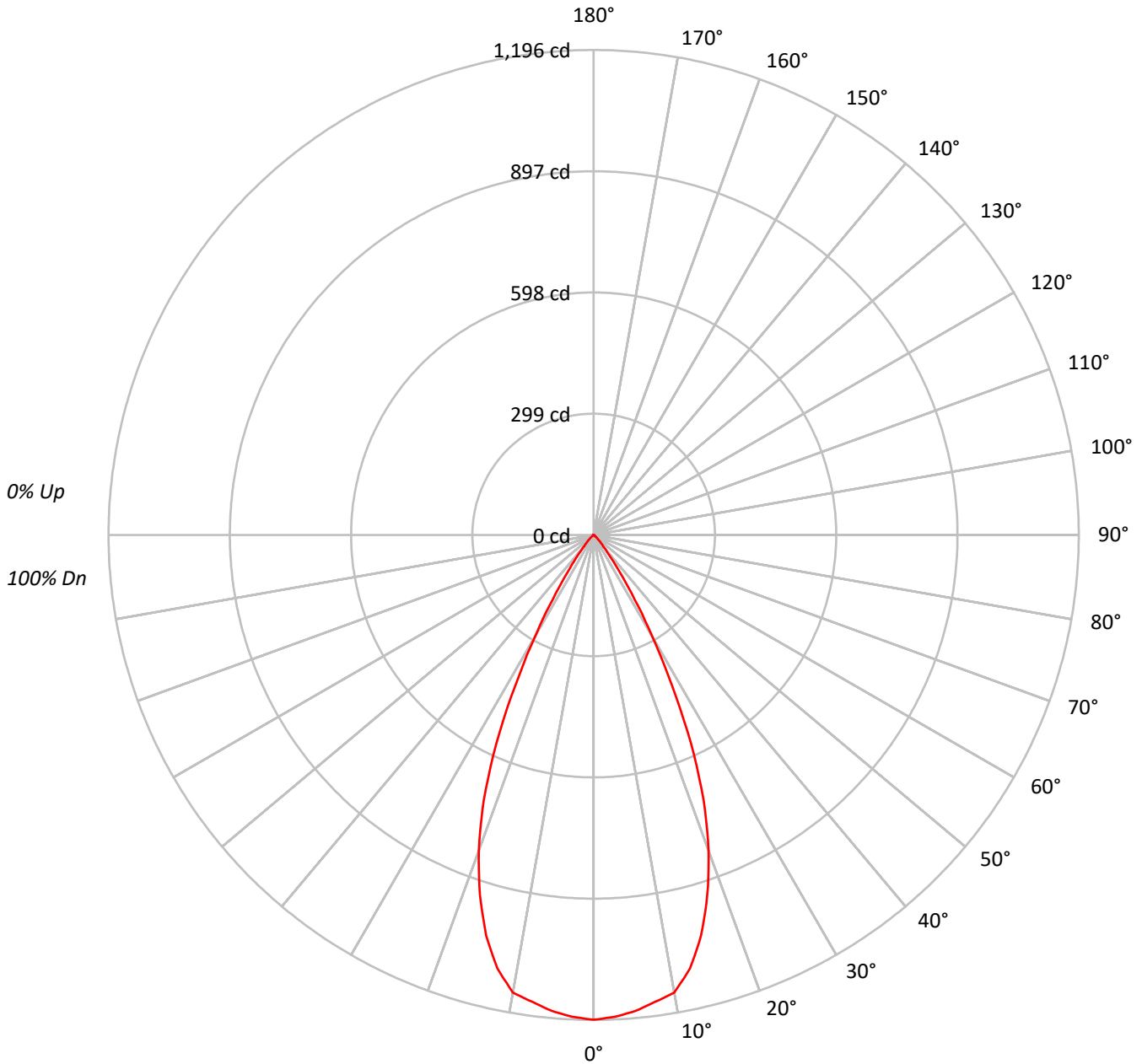
Downlight



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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	100	
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95	95	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	85	
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80	80	
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76	76	
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72	72	
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69	69	
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65	65	
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62	62	
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59	59	

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

	0°
0°	130621
5°	129256
10°	127122
15°	115751
20°	96320
25°	68379
30°	36196
35°	14752
40°	5477
45°	2503
50°	1037
55°	533
60°	262
65°	78
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2503 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	15.0
10°-20°	281.5	37.9
20°-30°	252.9	34.1
30°-40°	79.2	10.7
40°-50°	13.9	1.9
50°-60°	2.8	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	645.8	87.0
0°-40°	724.9	97.7
0°-60°	741.6	99.9
0°-90°	742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1196	
5°	1178	111
15°	1023	281
25°	567	253
35°	111	79
45°	16	14
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1195.5
2.5°	1189.6
5°	1178.5
7.5°	1161.5
10°	1145.8
12.5°	1095.4
15°	1023.3
17.5°	931.8
20°	828.4
22.5°	708.8
25°	567.2
27.5°	417.0
30°	286.9
32.5°	186.8
35°	110.6
37.5°	63.5
40°	38.4
42.5°	25.0
45°	16.2
47.5°	9.9
50°	6.1
52.5°	4.1
55°	2.8
57.5°	1.9
60°	1.2
62.5°	0.7
65°	0.3
67.5°	0.1
70°	0.0
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)