

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: P739857

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR150210IC9027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 687.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 7.5  
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



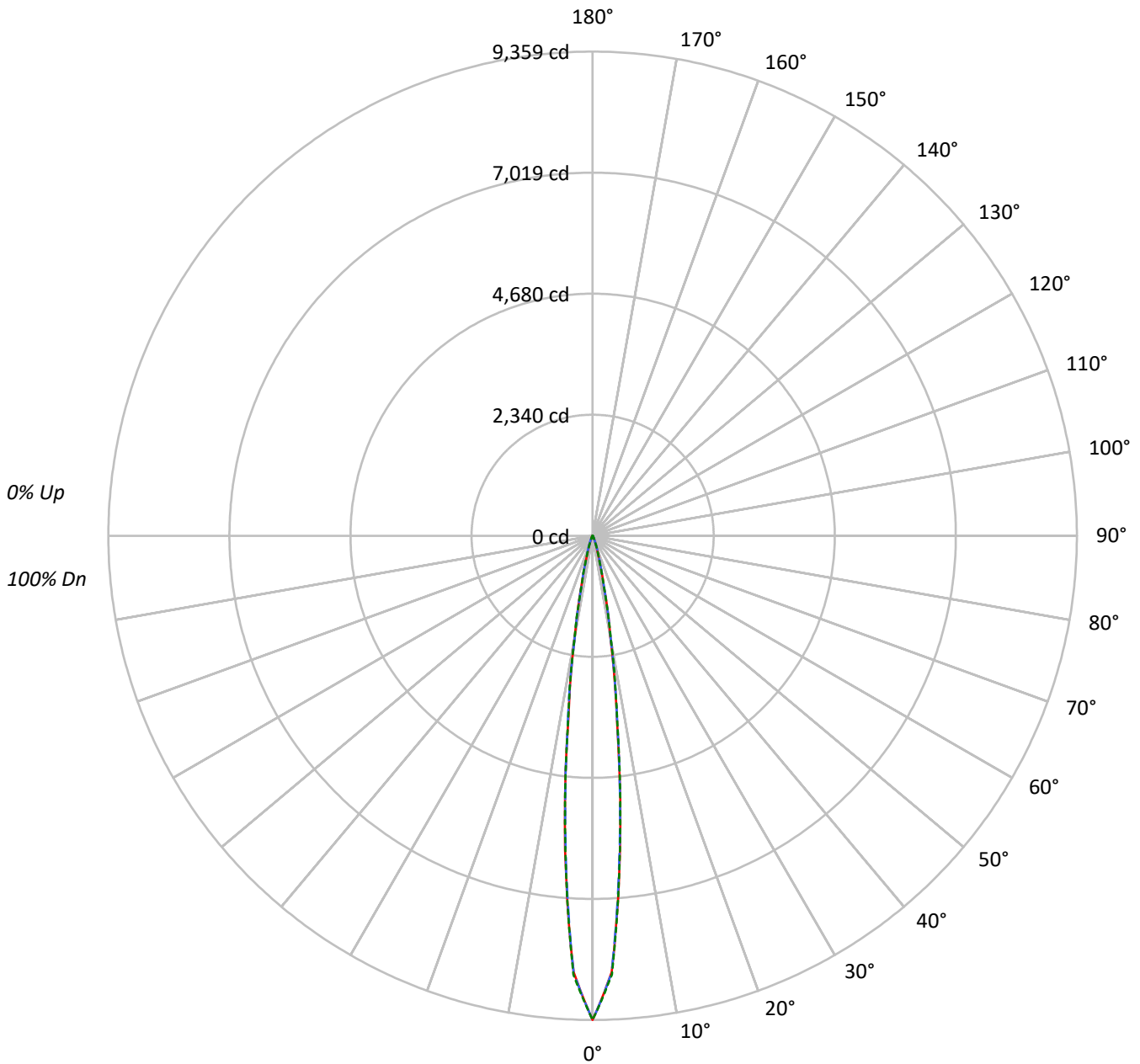
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	93	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	1053074	1053074	1053074
5°	618839	610820	615658
10°	184693	185990	188836
15°	45939	46833	45391
20°	13746	15915	14041
25°	4845	6170	4908
30°	1782	2344	1812
35°	893	1009	864
40°	561	618	561
45°	413	441	413
50°	334	334	334
55°	278	278	278
60°	225	225	225
65°	171	171	171
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.5	64.9
10°-20°	183.3	26.7
20°-30°	36.4	5.3
30°-40°	9.1	1.3
40°-50°	4.8	0.7
50°-60°	3.6	0.5
60°-70°	2.5	0.4
70°-80°	1.4	0.2
80°-90°	0.4	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
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0°-30°	665.2	96.8
0°-40°	674.2	98.1
0°-60°	682.6	99.4
0°-90°	687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9359	9359	9359	9359	9359	
5°	6089	6027	6010	6052	6058	445
15°	529	539	539	530	523	181
25°	62	70	79	70	63	33
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9359.0	9359.0	9359.0	9359.0	9359.0
2.5°	8442.2	8449.3	8452.1	8460.4	8491.3
5°	6089.2	6026.6	6010.3	6051.9	6057.9
7.5°	3607.0	3619.7	3666.0	3676.3	3639.1
10°	1979.4	1995.7	1993.3	2007.5	2023.8
12.5°	1012.3	999.6	995.6	1011.9	989.3
15°	528.9	538.8	539.2	529.7	522.6
17.5°	284.5	296.0	315.0	299.5	275.8
20°	168.0	178.3	194.5	181.9	171.6
22.5°	103.8	112.1	123.6	113.7	105.4
25°	62.2	70.5	79.2	70.1	63.0
27.5°	36.8	44.0	49.5	43.6	36.5
30°	23.8	27.7	31.3	27.3	24.2
32.5°	16.6	18.2	19.8	18.2	16.6
35°	12.3	13.1	13.9	13.1	11.9
37.5°	9.5	10.3	10.7	9.9	9.1
40°	7.9	8.3	8.7	8.3	7.9
42.5°	6.7	7.1	7.1	7.1	6.7
45°	5.9	5.9	6.3	5.9	5.9
47.5°	5.2	5.2	5.5	5.2	5.2
50°	4.8	4.8	4.8	4.8	4.8
52.5°	4.4	4.4	4.4	4.4	4.4
55°	4.0	4.0	4.0	4.0	4.0
57.5°	3.6	3.6	3.6	3.6	3.6
60°	3.2	3.2	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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