

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



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: P777310

Luminaire Tested: LERS4D05D010-EC4DR150210IC9040-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777310  
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: LERS4D05D010-EC4DR150210IC9040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 769.5 lumens  
Efficiency: N/A  
Efficacy: 102.6 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



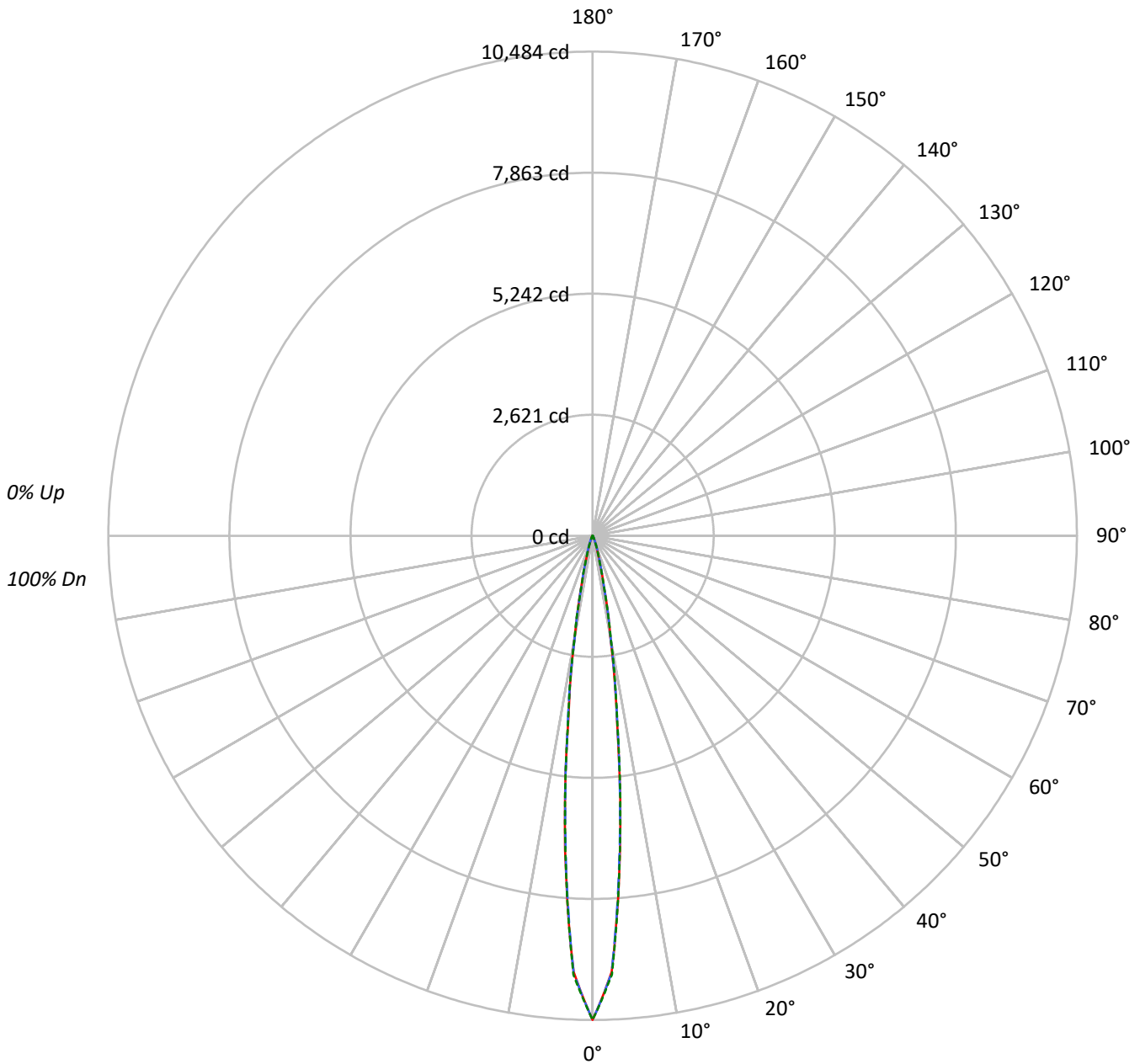
Downlight



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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	94	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	88	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°	1179637	1179637	1179637
5°	693211	684237	689654
10°	206891	208337	211528
15°	51463	52462	50846
20°	15399	17829	15726
25°	5430	6918	5500
30°	1992	2628	2029
35°	1002	1126	966
40°	632	696	632
45°	469	497	469
50°	369	369	369
55°	306	306	306
60°	253	253	253
65°	193	193	193
70°	161	161	161
75°	98	98	136
80°	71	71	71
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 497 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.1	64.9
10°-20°	205.3	26.7
20°-30°	40.8	5.3
30°-40°	10.2	1.3
40°-50°	5.4	0.7
50°-60°	4.0	0.5
60°-70°	2.8	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	745.1	96.8
0°-40°	755.3	98.2
0°-60°	764.6	99.4
0°-90°	769.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10484	10484	10484	10484	10484	
5°	6821	6751	6733	6779	6786	498
15°	592	604	604	593	585	203
25°	70	79	89	79	71	37
35°	14	15	16	15	13	9
45°	7	7	7	7	7	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
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°	10483.8	10483.8	10483.8	10483.8	10483.8
2.5°	9456.8	9464.8	9467.9	9477.3	9511.9
5°	6821.0	6750.9	6732.7	6779.3	6786.0
7.5°	4040.5	4054.7	4106.6	4118.2	4076.5
10°	2217.3	2235.5	2232.8	2248.8	2267.0
12.5°	1134.0	1119.7	1115.3	1133.5	1108.2
15°	592.5	603.6	604.0	593.4	585.4
17.5°	318.7	331.5	352.8	335.5	308.9
20°	188.2	199.7	217.9	203.7	192.2
22.5°	116.3	125.6	138.5	127.4	118.1
25°	69.7	79.0	88.8	78.6	70.6
27.5°	41.3	49.3	55.5	48.8	40.8
30°	26.6	31.1	35.1	30.6	27.1
32.5°	18.6	20.4	22.2	20.4	18.6
35°	13.8	14.6	15.5	14.6	13.3
37.5°	10.7	11.5	12.0	11.1	10.2
40°	8.9	9.3	9.8	9.3	8.9
42.5°	7.5	8.0	8.0	8.0	7.5
45°	6.7	6.7	7.1	6.7	6.7
47.5°	5.8	5.8	6.2	5.8	5.8
50°	5.3	5.3	5.3	5.3	5.3
52.5°	4.9	4.9	4.9	4.9	4.9
55°	4.4	4.4	4.4	4.4	4.4
57.5°	4.0	4.0	4.0	4.0	4.0
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.7	2.7	2.7	2.7	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.2	2.2	2.2	2.2	2.2
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.8
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)