

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: P738869

Luminaire Tested: LD4D02D010-EU4DR150210IC9035-4LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P738869  
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: LD4D02D010-EU4DR150210IC9035-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 410.7 lumens  
Efficiency: N/A  
Efficacy: 80.5 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): 5.1  
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

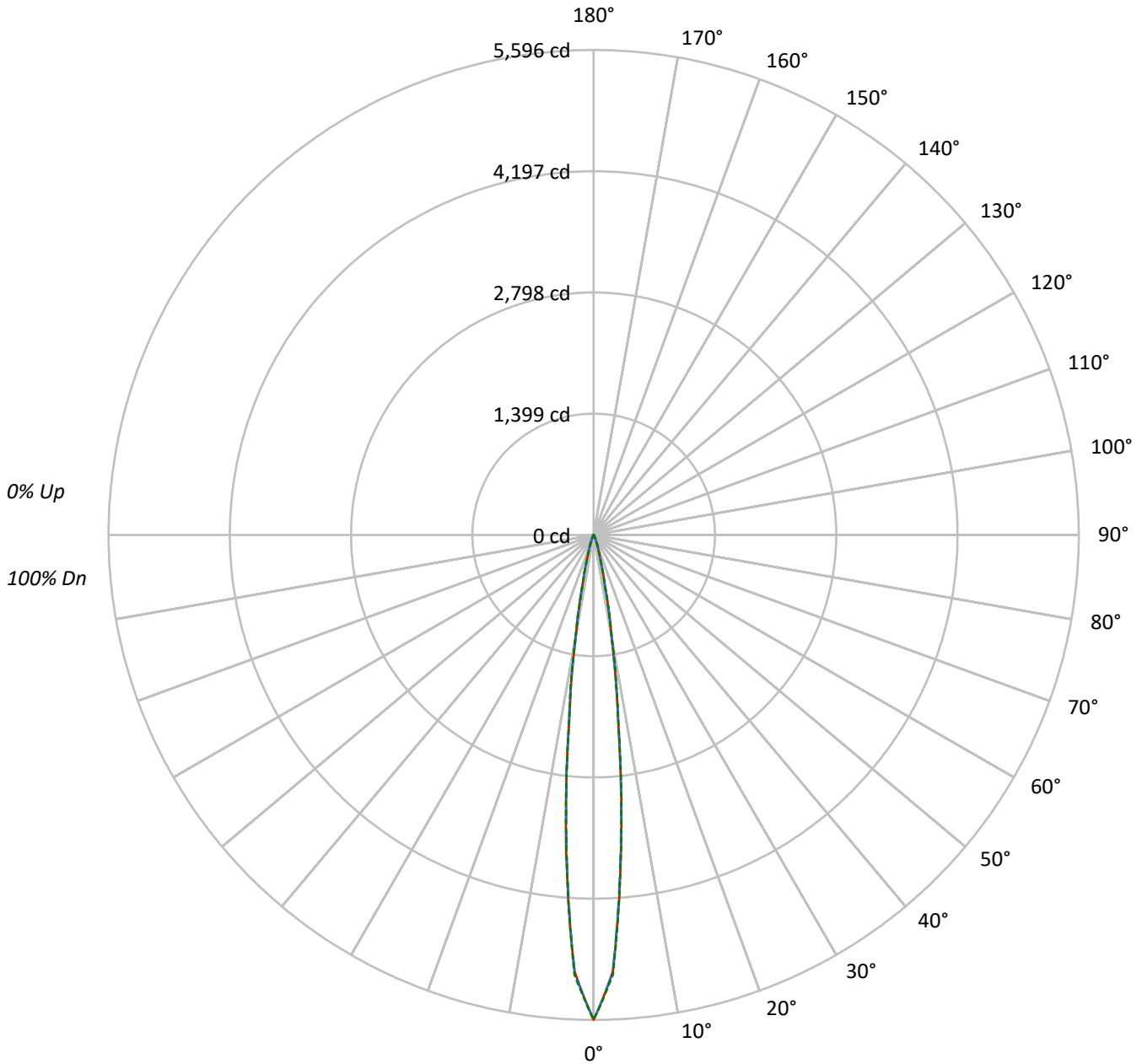


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100														
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98														
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96														
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94														
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93														
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92														
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90														
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89														
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88														
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87														
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86														

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

	0°	45°	90°
0°	629617	629617	629617
5°	369990	365203	368090
10°	110420	111195	112902
15°	27464	28003	27134
20°	8215	9516	8395
25°	2898	3692	2937
30°	1063	1400	1078
35°	530	603	516
40°	334	369	334
45°	252	266	252
50°	195	195	195
55°	167	167	167
60°	133	133	133
65°	100	100	100
70°	88	88	88
75°	53	53	68
80°	39	39	39
85°	17	17	17

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 266 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.4	64.9
10°-20°	109.6	26.7
20°-30°	21.8	5.3
30°-40°	5.4	1.3
40°-50°	2.9	0.7
50°-60°	2.1	0.5
60°-70°	1.5	0.4
70°-80°	0.8	0.2
80°-90°	0.3	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°	397.7	96.8
0°-40°	403.1	98.2
0°-60°	408.1	99.4
0°-90°	410.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	410.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5596	5596	5596	5596	5596	
5°	3641	3603	3594	3618	3622	266
15°	316	322	322	317	312	108
25°	37	42	47	42	38	20
35°	7	8	8	8	7	5
45°	4	4	4	4	4	3
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	1	1	1	1	1	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°	5595.6	5595.6	5595.6	5595.6	5595.6
2.5°	5047.4	5051.7	5053.3	5058.3	5076.8
5°	3640.6	3603.2	3593.5	3618.3	3621.9
7.5°	2156.5	2164.1	2191.8	2198.0	2175.7
10°	1183.4	1193.2	1191.7	1200.3	1210.0
12.5°	605.2	597.6	595.3	605.0	591.5
15°	316.2	322.2	322.4	316.7	312.4
17.5°	170.1	176.9	188.3	179.1	164.9
20°	100.4	106.6	116.3	108.7	102.6
22.5°	62.1	67.0	73.9	68.0	63.0
25°	37.2	42.2	47.4	41.9	37.7
27.5°	22.0	26.3	29.6	26.1	21.8
30°	14.2	16.6	18.7	16.3	14.4
32.5°	9.9	10.9	11.8	10.9	9.9
35°	7.3	7.8	8.3	7.8	7.1
37.5°	5.7	6.2	6.4	5.9	5.4
40°	4.7	5.0	5.2	5.0	4.7
42.5°	4.0	4.3	4.3	4.3	4.0
45°	3.6	3.6	3.8	3.6	3.6
47.5°	3.1	3.1	3.3	3.1	3.1
50°	2.8	2.8	2.8	2.8	2.8
52.5°	2.6	2.6	2.6	2.6	2.6
55°	2.4	2.4	2.4	2.4	2.4
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.7	1.7	1.7	1.7	1.7
65°	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4
70°	1.2	1.2	1.2	1.2	1.2
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.9
77.5°	0.7	0.7	0.7	0.7	0.7
80°	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2
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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