

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: P742931

Luminaire Tested: LD4D15D010-EU4DR1515309040-4LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742931  
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: LD4D15D010-EU4DR1515309040-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1425.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 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): 15.8  
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



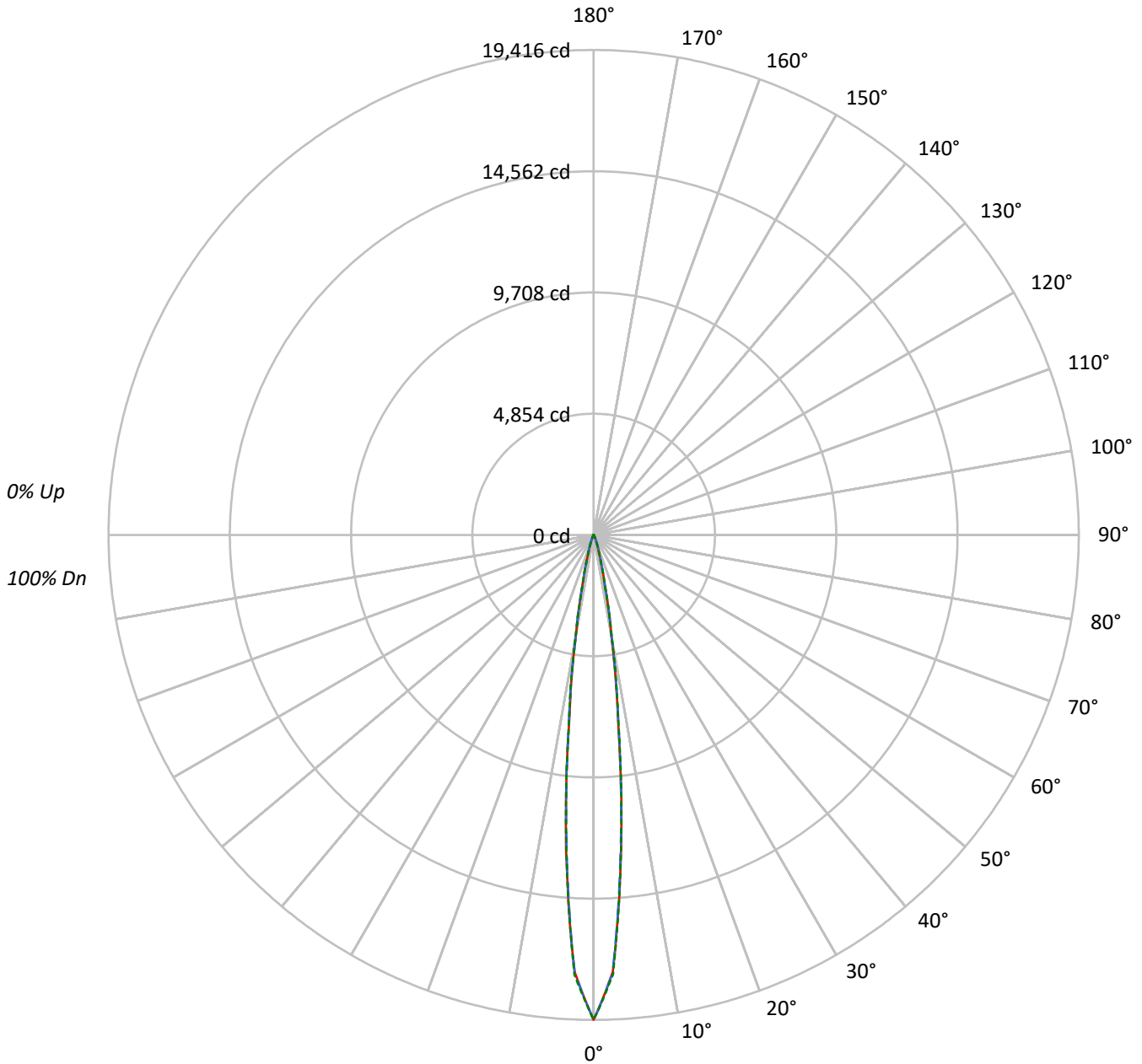
Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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°	2184721	2184721	2184721
5°	1283847	1267221	1277242
10°	383168	385855	391761
15°	95308	97167	94170
20°	28515	33024	29121
25°	10049	12807	10182
30°	3692	4860	3752
35°	1852	2091	1794
40°	1165	1285	1165
45°	861	924	861
50°	688	688	688
55°	571	571	571
60°	463	463	463
65°	350	350	350
70°	300	300	300
75°	189	189	249
80°	126	126	126
85°	66	66	66

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 924 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.3	64.9
10°-20°	380.2	26.7
20°-30°	75.5	5.3
30°-40°	18.8	1.3
40°-50°	9.9	0.7
50°-60°	7.3	0.5
60°-70°	5.2	0.4
70°-80°	3.0	0.2
80°-90°	0.9	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°	1379.9	96.8
0°-40°	1398.8	98.2
0°-60°	1416.0	99.4
0°-90°	1425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19416	19416	19416	19416	19416	
5°	12633	12503	12469	12555	12568	923
15°	1097	1118	1119	1099	1084	376
25°	129	146	164	146	131	68
35°	26	27	29	27	25	17
45°	12	12	13	12	12	10
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19416.3	19416.3	19416.3	19416.3	19416.3
2.5°	17514.3	17529.1	17534.8	17552.1	17616.2
5°	12632.7	12502.8	12469.1	12555.4	12567.7
7.5°	7483.1	7509.4	7605.6	7626.9	7549.7
10°	4106.5	4140.2	4135.3	4164.9	4198.6
12.5°	2100.1	2073.8	2065.6	2099.3	2052.4
15°	1097.3	1117.9	1118.7	1099.0	1084.2
17.5°	590.2	614.0	653.5	621.4	572.1
20°	348.5	369.9	403.6	377.3	355.9
22.5°	215.4	232.6	256.5	235.9	218.6
25°	129.0	146.3	164.4	145.5	130.7
27.5°	76.4	91.2	102.7	90.4	75.6
30°	49.3	57.5	64.9	56.7	50.1
32.5°	34.5	37.8	41.1	37.8	34.5
35°	25.5	27.1	28.8	27.1	24.7
37.5°	19.7	21.4	22.2	20.5	18.9
40°	16.4	17.3	18.1	17.3	16.4
42.5°	14.0	14.8	14.8	14.8	14.0
45°	12.3	12.3	13.2	12.3	12.3
47.5°	10.7	10.7	11.5	10.7	10.7
50°	9.9	9.9	9.9	9.9	9.9
52.5°	9.0	9.0	9.0	9.0	9.0
55°	8.2	8.2	8.2	8.2	8.2
57.5°	7.4	7.4	7.4	7.4	7.4
60°	6.6	6.6	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.8	5.8
65°	4.9	4.9	4.9	4.9	4.9
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.3	3.3	3.3	3.3	3.3
75°	2.5	2.5	2.5	2.5	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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)