

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: P745786

Luminaire Tested: LD4D30D010-EU4DR1515309040-4LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745786  
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: LD4D30D010-EU4DR1515309040-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2742.2 lumens  
Efficiency: N/A  
Efficacy: 94.6 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): 29  
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



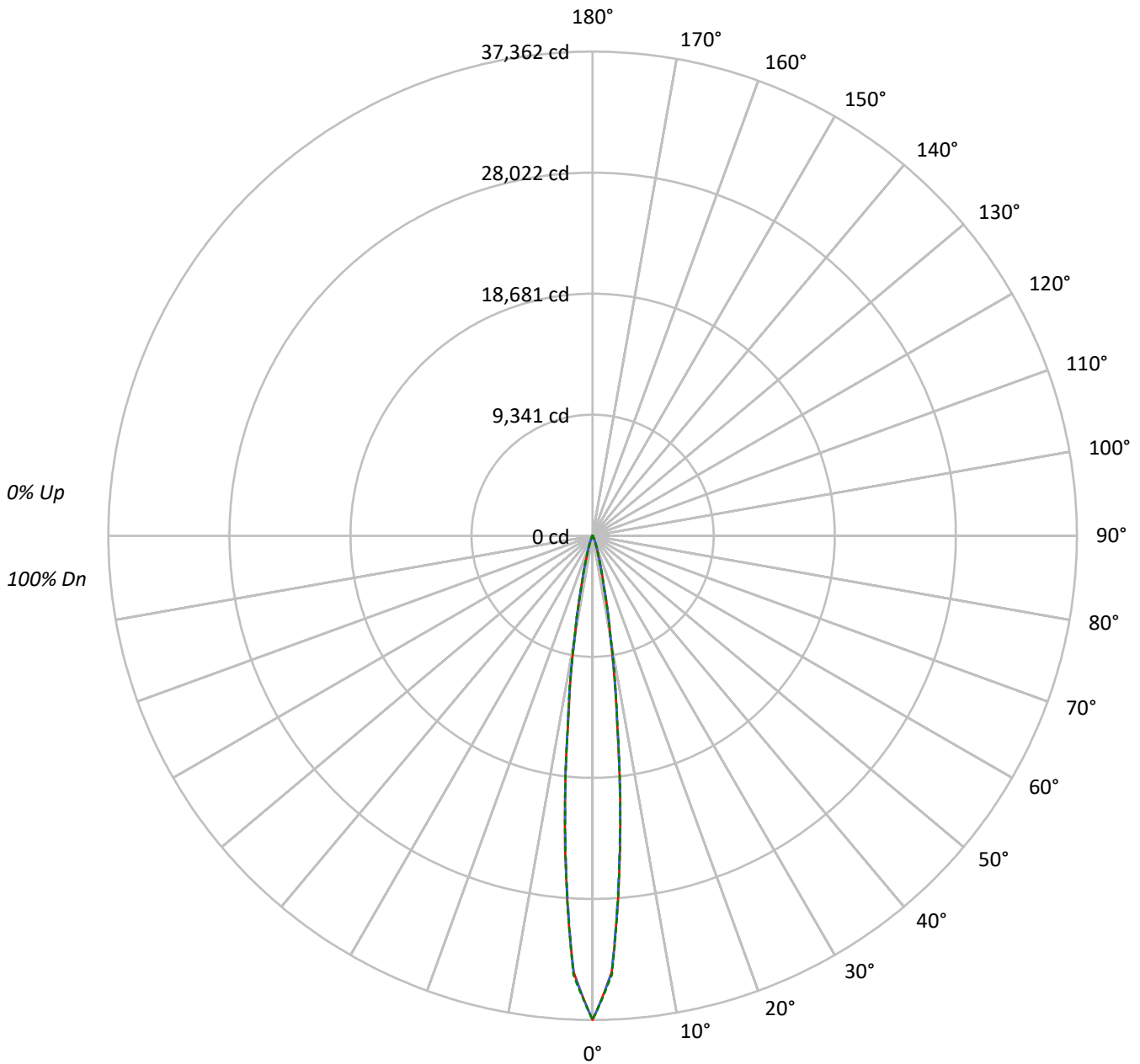
Downlight



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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°	4203982	4203982	4203982
5°	2470456	2438474	2457763
10°	737317	742486	753851
15°	183398	186968	181201
20°	54870	63544	56040
25°	19343	24640	19592
30°	7106	9360	7226
35°	3558	4023	3442
40°	2244	2471	2244
45°	1659	1771	1659
50°	1321	1321	1321
55°	1100	1100	1100
60°	892	892	892
65°	678	678	678
70°	578	578	578
75°	355	355	476
80°	252	252	252
85°	133	133	133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1771 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1778.5	64.9
10°-20°	731.5	26.7
20°-30°	145.3	5.3
30°-40°	36.3	1.3
40°-50°	19.1	0.7
50°-60°	14.1	0.5
60°-70°	10.0	0.4
70°-80°	5.7	0.2
80°-90°	1.7	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°	2655.4	96.8
0°-40°	2691.6	98.2
0°-60°	2724.8	99.4
0°-90°	2742.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2742.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	37362	37362	37362	37362	37362	
5°	24309	24059	23994	24160	24184	1775
15°	2112	2151	2153	2115	2086	724
25°	248	282	316	280	252	130
35°	49	52	55	52	47	33
45°	24	24	25	24	24	19
55°	16	16	16	16	16	14
65°	10	10	10	10	10	10
75°	5	5	5	5	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	37362.1	37362.1	37362.1	37362.1	37362.1
2.5°	33702.1	33730.6	33741.7	33774.9	33898.3
5°	24308.6	24058.7	23993.9	24160.0	24183.7
7.5°	14399.5	14450.1	14635.2	14676.3	14527.6
10°	7902.0	7966.9	7957.4	8014.3	8079.2
12.5°	4041.2	3990.5	3974.7	4039.6	3949.4
15°	2111.5	2151.1	2152.6	2114.7	2086.2
17.5°	1135.6	1181.5	1257.4	1195.7	1100.8
20°	670.6	711.7	776.6	726.0	684.9
22.5°	414.4	447.6	493.5	453.9	420.7
25°	248.3	281.5	316.3	280.0	251.5
27.5°	147.1	175.6	197.7	174.0	145.5
30°	94.9	110.7	125.0	109.1	96.5
32.5°	66.4	72.8	79.1	72.8	66.4
35°	49.0	52.2	55.4	52.2	47.4
37.5°	38.0	41.1	42.7	39.5	36.4
40°	31.6	33.2	34.8	33.2	31.6
42.5°	26.9	28.5	28.5	28.5	26.9
45°	23.7	23.7	25.3	23.7	23.7
47.5°	20.6	20.6	22.1	20.6	20.6
50°	19.0	19.0	19.0	19.0	19.0
52.5°	17.4	17.4	17.4	17.4	17.4
55°	15.8	15.8	15.8	15.8	15.8
57.5°	14.2	14.2	14.2	14.2	14.2
60°	12.7	12.7	12.7	12.7	12.7
62.5°	11.1	11.1	11.1	11.1	11.1
65°	9.5	9.5	9.5	9.5	9.5
67.5°	9.5	9.5	9.5	9.5	9.5
70°	7.9	7.9	7.9	7.9	7.9
72.5°	6.3	6.3	6.3	6.3	6.3
75°	4.7	4.7	4.7	4.7	6.3
77.5°	4.7	4.7	4.7	4.7	4.7
80°	3.2	3.2	3.2	3.2	3.2
82.5°	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6
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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(END OF REPORT)