

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: P742127

Luminaire Tested: LD4D10D010-EU4DR300210IC9030-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P742127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D10D010-EU4DR300210IC9030-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 975.9 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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



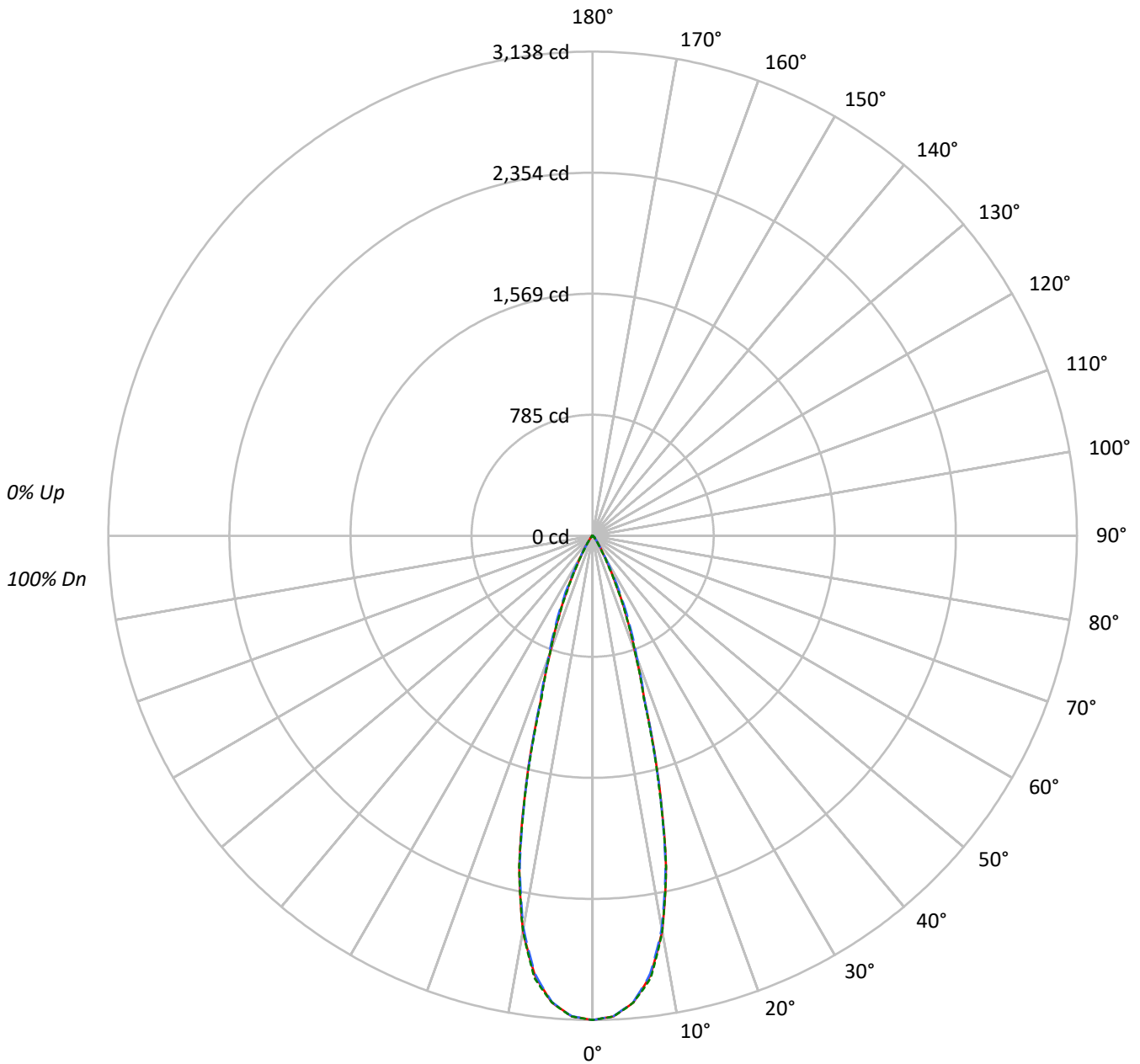
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	240193	240193	240193
5°	233304	233028	233312
10°	202075	200645	202021
15°	131838	131132	130475
20°	65556	68016	65466
25°	33022	37237	32347
30°	13222	14407	11517
35°	6139	5878	4924
40°	2648	2938	2498
45°	1862	2317	1884
50°	643	1691	679
55°	374	694	387
60°	260	306	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2317 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.9	28.3
10°-20°	444.4	45.5
20°-30°	192.0	19.7
30°-40°	43.8	4.5
40°-50°	15.0	1.5
50°-60°	3.7	0.4
60°-70°	1.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	912.4	93.5
0°-40°	956.1	98.0
0°-60°	974.8	99.9
0°-90°	975.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	975.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3138	3138	3138	3138	3138	
5°	3036	3033	3033	3039	3036	276
15°	1664	1644	1655	1649	1646	445
25°	391	406	441	396	383	187
35°	66	67	63	62	53	45
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3138.0	3138.0	3138.0	3138.0	3138.0
2.5°	3117.2	3115.1	3116.3	3117.8	3118.5
5°	3036.4	3033.4	3032.8	3039.1	3036.5
7.5°	2873.2	2869.0	2862.7	2877.0	2890.4
10°	2599.9	2595.2	2581.5	2588.3	2599.2
12.5°	2196.3	2181.4	2181.1	2202.7	2199.7
15°	1663.7	1643.7	1654.8	1649.4	1646.5
17.5°	1118.8	1111.1	1125.9	1121.4	1102.2
20°	804.8	806.8	835.0	820.9	803.7
22.5°	587.3	594.6	628.0	591.5	578.1
25°	391.0	405.8	440.9	395.5	383.0
27.5°	240.5	247.3	282.9	237.4	230.6
30°	149.6	146.2	163.0	139.9	130.3
32.5°	98.1	93.8	99.2	89.0	81.4
35°	65.7	67.0	62.9	62.4	52.7
37.5°	41.0	47.2	41.6	44.3	33.9
40°	26.5	34.2	29.4	32.5	25.0
42.5°	21.7	26.4	24.2	25.7	22.2
45°	17.2	21.4	21.4	21.4	17.4
47.5°	9.6	14.3	18.3	14.6	10.1
50°	5.4	7.2	14.2	7.6	5.7
52.5°	3.7	4.2	9.7	4.3	3.8
55°	2.8	2.9	5.2	3.1	2.9
57.5°	2.2	2.3	2.8	2.3	2.2
60°	1.7	1.7	2.0	1.8	1.7
62.5°	1.3	1.3	1.4	1.3	1.3
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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