

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: P746038

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746038  
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: LD4D30D010-EU4DR3020359050-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2951.4 lumens  
Efficiency: N/A  
Efficacy: 101.8 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): 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

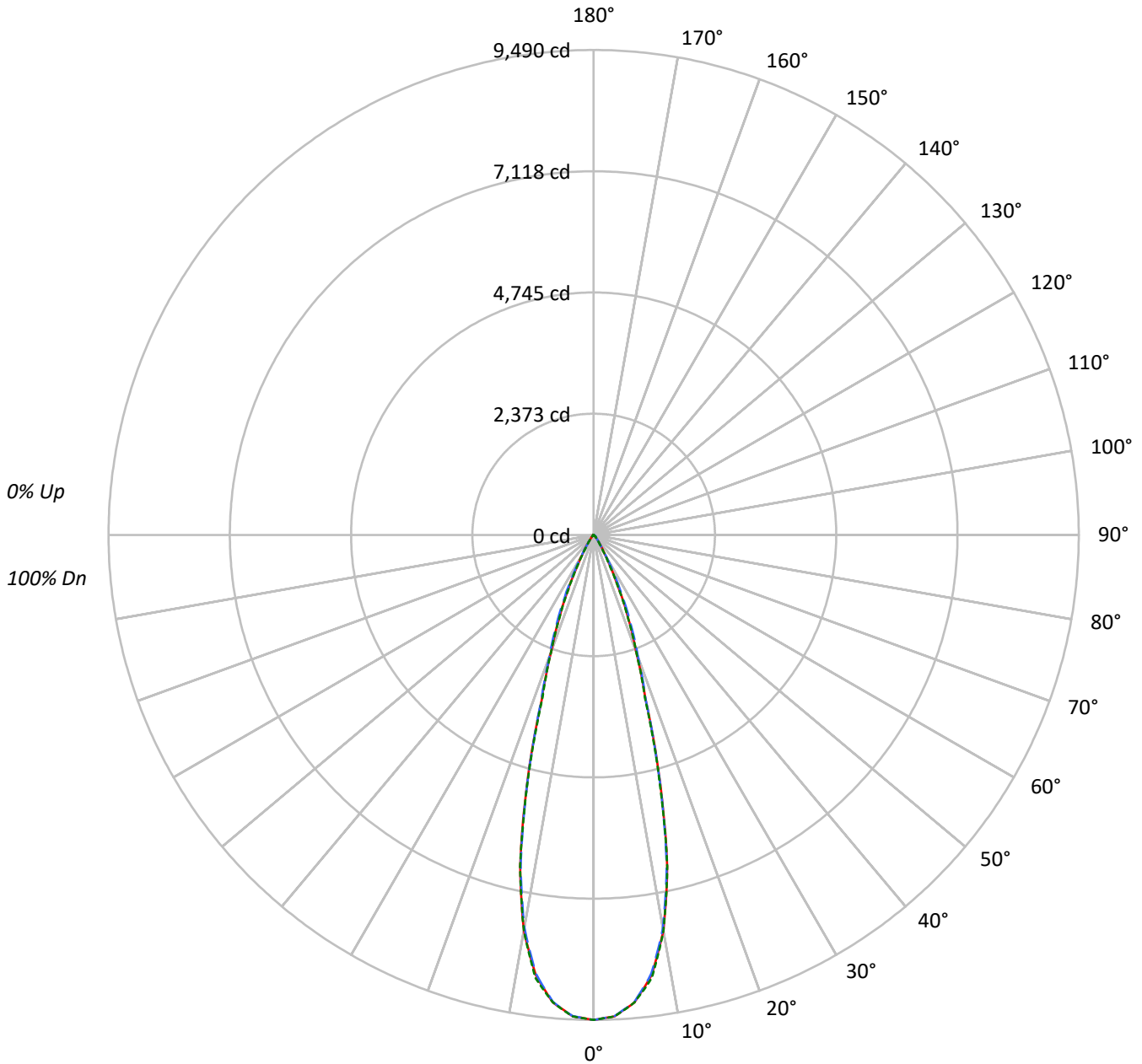


Downlight



TEST NUMBER: P746038  
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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°	726404	726404	726404
5°	705552	704730	705591
10°	611114	606808	610974
15°	398722	396582	394585
20°	198263	205700	198003
25°	99870	112622	97826
30°	39985	43574	34841
35°	18548	17763	14885
40°	8014	8893	7544
45°	5651	7004	5705
50°	1941	5109	2048
55°	1121	2108	1188
60°	781	934	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7004 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.5	28.3
10°-20°	1344.0	45.5
20°-30°	580.8	19.7
30°-40°	132.4	4.5
40°-50°	45.4	1.5
50°-60°	11.1	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2759.3	93.5
0°-40°	2891.6	98.0
0°-60°	2948.2	99.9
0°-90°	2951.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2951.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9490	9490	9490	9490	9490	
5°	9183	9174	9172	9191	9183	835
15°	5032	4971	5005	4988	4979	1347
25°	1182	1227	1334	1196	1158	566
35°	198	203	190	189	159	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
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°	9490.1	9490.1	9490.1	9490.1	9490.1
2.5°	9427.2	9420.7	9424.4	9429.1	9430.9
5°	9182.6	9173.7	9171.9	9191.0	9183.1
7.5°	8689.2	8676.6	8657.5	8700.8	8741.4
10°	7862.6	7848.6	7807.2	7827.7	7860.8
12.5°	6642.3	6597.1	6596.2	6661.5	6652.6
15°	5031.6	4971.0	5004.6	4988.3	4979.4
17.5°	3383.6	3360.3	3405.0	3391.5	3333.3
20°	2434.0	2440.1	2525.3	2482.5	2430.8
22.5°	1776.1	1798.0	1899.2	1788.7	1748.2
25°	1182.5	1227.3	1333.5	1196.0	1158.3
27.5°	727.3	747.8	855.5	718.0	697.5
30°	452.4	442.1	493.0	423.1	394.2
32.5°	296.8	283.7	300.1	269.3	246.0
35°	198.5	202.7	190.1	188.7	159.3
37.5°	123.9	142.6	125.8	134.2	102.5
40°	80.2	103.4	89.0	98.3	75.5
42.5°	65.7	79.7	73.2	77.8	67.1
45°	52.2	64.7	64.7	64.7	52.7
47.5°	28.9	43.3	55.5	44.3	30.8
50°	16.3	21.9	42.9	22.8	17.2
52.5°	11.2	12.6	29.3	13.1	11.6
55°	8.4	8.9	15.8	9.3	8.9
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.1	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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

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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)