

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: P744790

Luminaire Tested: LD4D20D010-EU4DR7020359050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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

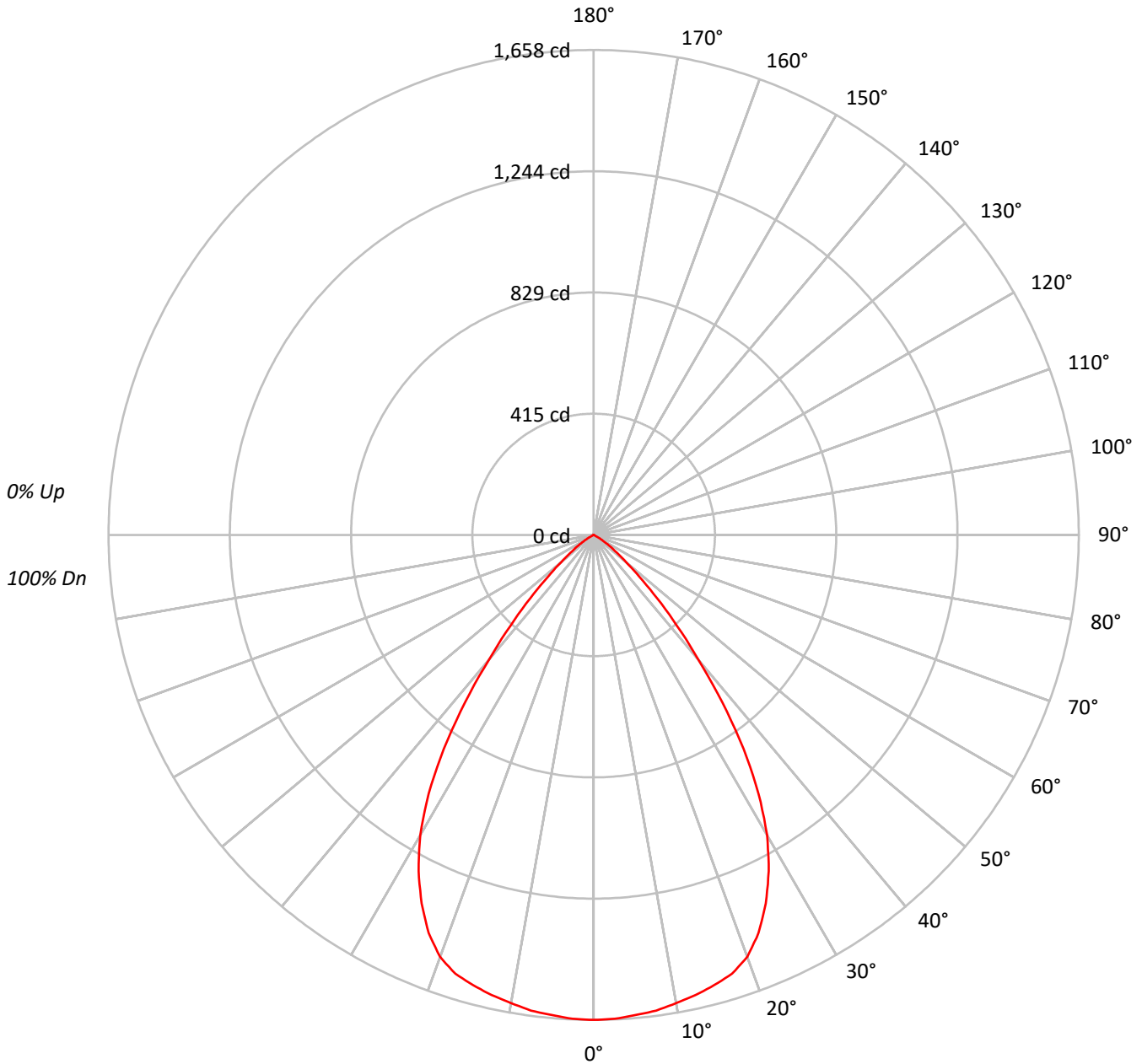


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65	65	65	65
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	60
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56	56	56	56
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51	51	51	51
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48	48	48	48
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	181143
5°	180695
10°	180299
15°	180249
20°	178479
25°	167669
30°	149466
35°	119177
40°	79131
45°	47313
50°	24528
55°	12896
60°	4567
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 47313 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	7.5
10°-20°	449.3	21.4
20°-30°	633.9	30.2
30°-40°	547.2	26.1
40°-50°	245.1	11.7
50°-60°	64.2	3.1
60°-70°	4.2	0.2
70°-80°	0.0	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°	1239.9	59.0
0°-40°	1787.1	85.1
0°-60°	2096.3	99.8
0°-90°	2100.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1658	
5°	1648	157
15°	1594	449
25°	1391	634
35°	894	547
45°	306	245
55°	68	64
65°	0	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1657.9
2.5°	1656.1
5°	1647.5
7.5°	1640.3
10°	1625.1
12.5°	1611.4
15°	1593.5
17.5°	1572.9
20°	1535.0
22.5°	1472.8
25°	1390.8
27.5°	1295.7
30°	1184.7
32.5°	1049.1
35°	893.5
37.5°	721.7
40°	554.8
42.5°	421.6
45°	306.2
47.5°	211.1
50°	144.3
52.5°	99.6
55°	67.7
57.5°	40.9
60°	20.9
62.5°	6.5
65°	0.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)