

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: P778825

Luminaire Tested: LER4D02D010-EC4DR700210IC9050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778825
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: LER4D02D010-EC4DR700210IC9050-4LBS1H
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: 397.0 lumens
Efficiency: N/A
Efficacy: 77.8 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): 5.1
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



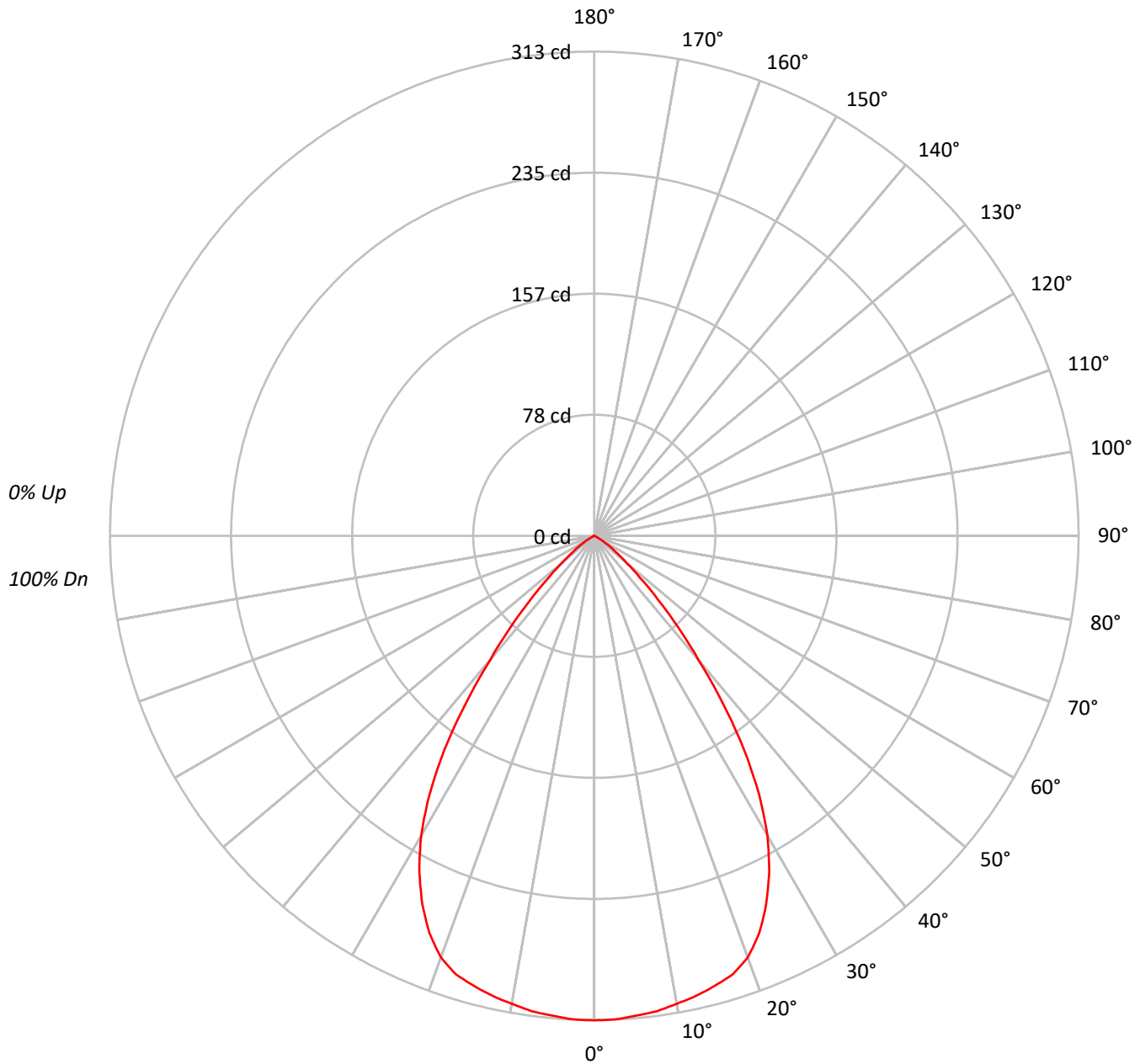
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34231
5°	34154
10°	34083
15°	34070
20°	33731
25°	31694
30°	28248
35°	22515
40°	14948
45°	8947
50°	4640
55°	2438
60°	874
65°	26
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	7.5
10°-20°	84.9	21.4
20°-30°	119.8	30.2
30°-40°	103.4	26.0
40°-50°	46.3	11.7
50°-60°	12.1	3.1
60°-70°	0.8	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°	234.3	59.0
0°-40°	337.8	85.1
0°-60°	396.2	99.8
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	313	
5°	311	30
15°	301	85
25°	263	120
35°	169	103
45°	58	46
55°	13	12
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	313.3
2.5°	313.0
5°	311.4
7.5°	310.0
10°	307.2
12.5°	304.6
15°	301.2
17.5°	297.3
20°	290.1
22.5°	278.3
25°	262.9
27.5°	244.9
30°	223.9
32.5°	198.3
35°	168.8
37.5°	136.4
40°	104.8
42.5°	79.7
45°	57.9
47.5°	39.9
50°	27.3
52.5°	18.8
55°	12.8
57.5°	7.7
60°	4.0
62.5°	1.3
65°	0.1
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



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— 0°-180°







(END OF REPORT)