

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: P779109

Luminaire Tested: LER4D05D010-EC4DR650210IC9040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D05D010-EC4DR650210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 635.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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



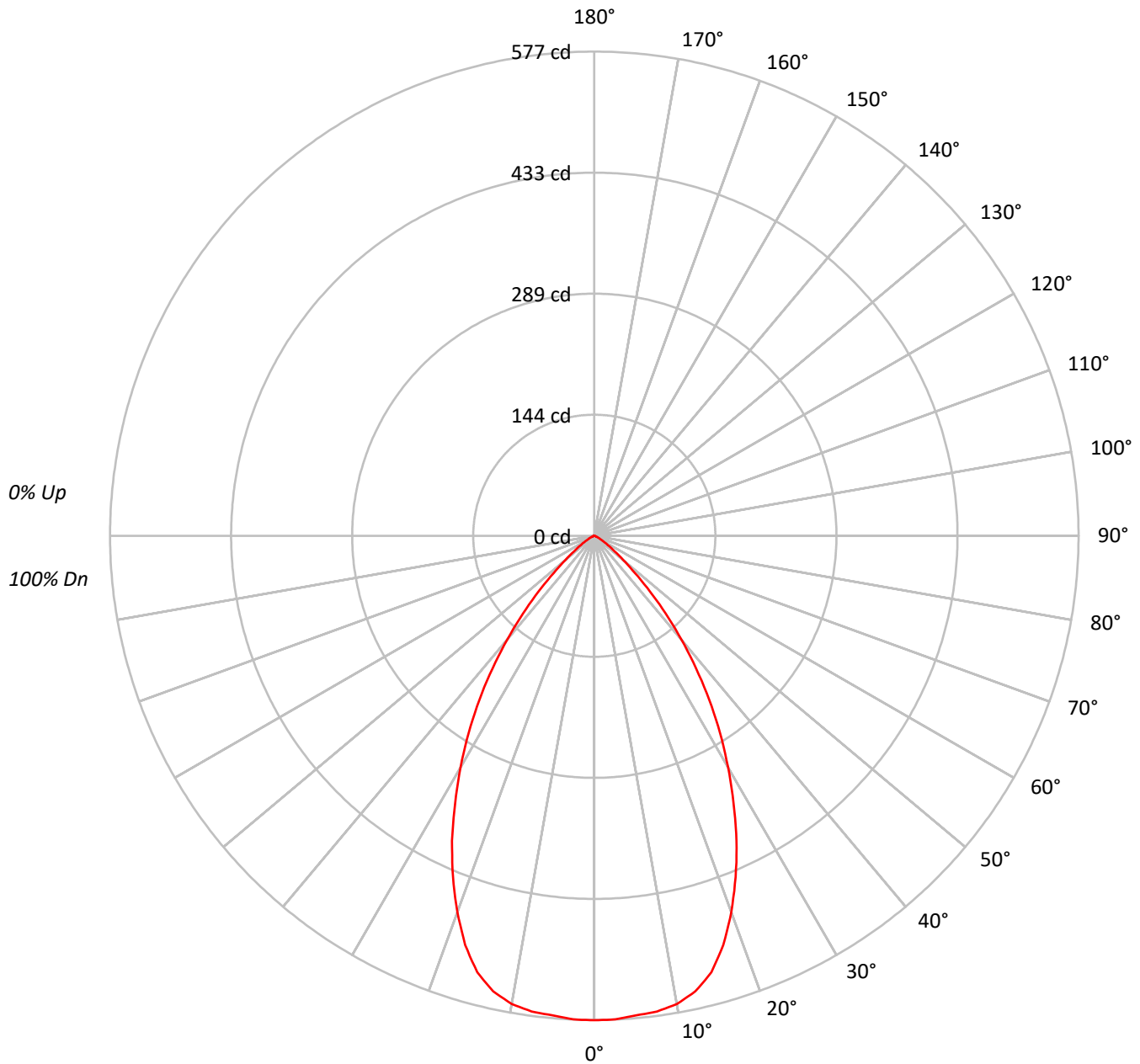
Downlight



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33717
5°	33628
10°	33602
15°	32566
20°	29647
25°	25841
30°	21486
35°	17026
40°	12290
45°	7764
50°	4043
55°	2148
60°	1133
65°	622
70°	256
75°	293
80°	202
85°	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	8.6
10°-20°	149.5	23.5
20°-30°	182.7	28.7
30°-40°	148.3	23.3
40°-50°	73.9	11.6
50°-60°	20.6	3.2
60°-70°	4.7	0.7
70°-80°	1.2	0.2
80°-90°	0.3	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°	386.8	60.8
0°-40°	535.1	84.2
0°-60°	629.6	99.0
0°-90°	635.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	635.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	577	
5°	574	55
15°	539	149
25°	401	183
35°	239	148
45°	94	74
55°	21	21
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	577.3
2.5°	576.8
5°	573.6
7.5°	571.8
10°	566.6
12.5°	556.1
15°	538.6
17.5°	511.3
20°	477.0
22.5°	440.0
25°	401.0
27.5°	359.1
30°	318.6
32.5°	278.7
35°	238.8
37.5°	199.0
40°	161.2
42.5°	125.7
45°	94.0
47.5°	65.5
50°	44.5
52.5°	30.7
55°	21.1
57.5°	14.3
60°	9.7
62.5°	6.7
65°	4.5
67.5°	2.3
70°	1.5
72.5°	1.4
75°	1.3
77.5°	0.9
80°	0.6
82.5°	0.4
85°	0.2
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)