

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: P778790

Luminaire Tested: LER4D02D010-EC4DR650210IC9030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778790
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: LER4D02D010-EC4DR650210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 337.5 lumens
Efficiency: N/A
Efficacy: 66.2 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): 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



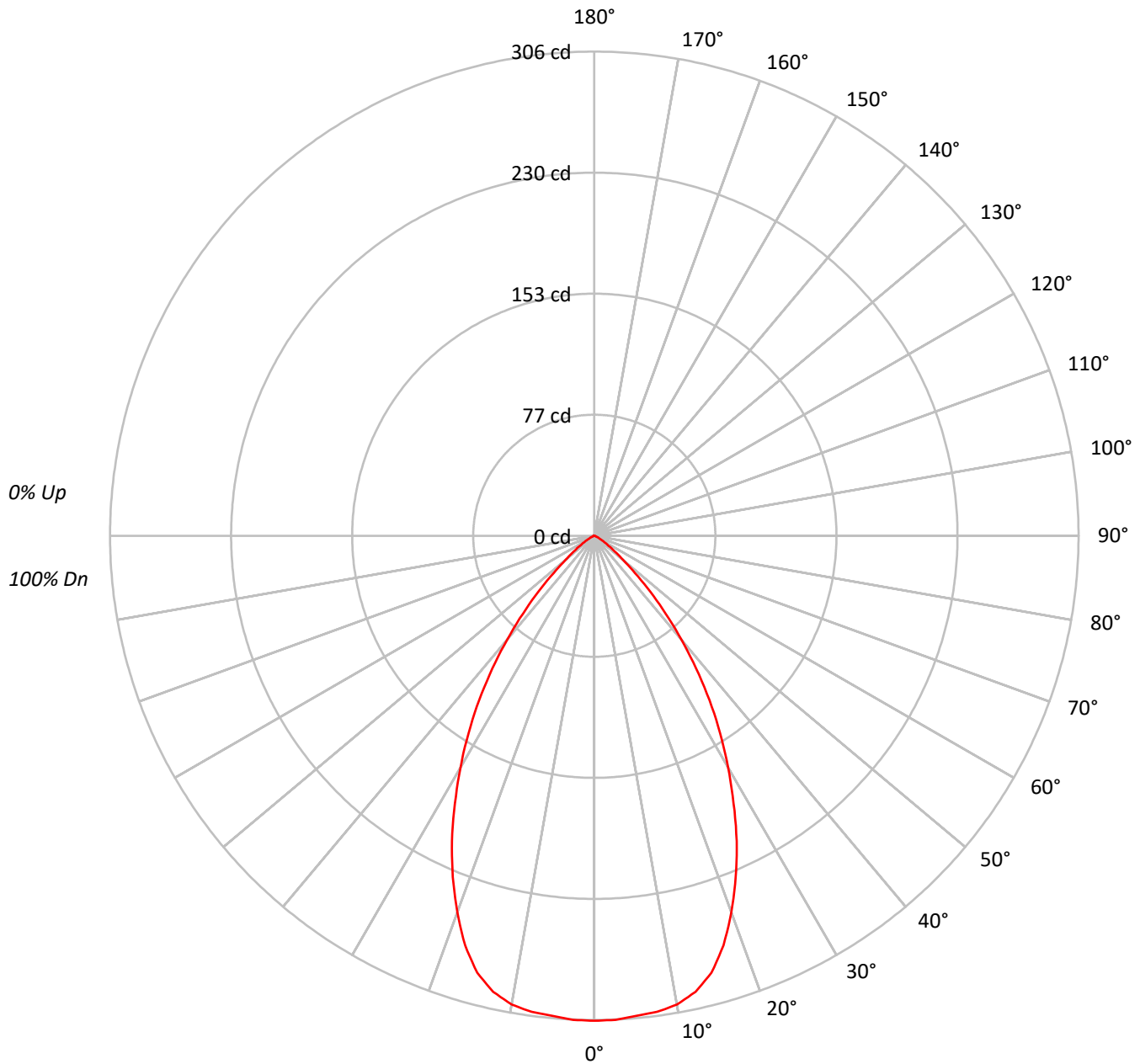
Downlight



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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
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°	17901
5°	17852
10°	17839
15°	17287
20°	15737
25°	13720
30°	11404
35°	9041
40°	6519
45°	4122
50°	2153
55°	1140
60°	607
65°	332
70°	137
75°	158
80°	101
85°	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	8.6
10°-20°	79.4	23.5
20°-30°	97.0	28.7
30°-40°	78.7	23.3
40°-50°	39.2	11.6
50°-60°	11.0	3.2
60°-70°	2.5	0.7
70°-80°	0.6	0.2
80°-90°	0.1	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°	205.3	60.8
0°-40°	284.1	84.2
0°-60°	334.2	99.0
0°-90°	337.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	337.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	306	
5°	304	29
15°	286	79
25°	213	97
35°	127	79
45°	50	39
55°	11	11
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	306.5
2.5°	306.2
5°	304.5
7.5°	303.5
10°	300.8
12.5°	295.2
15°	285.9
17.5°	271.4
20°	253.2
22.5°	233.6
25°	212.9
27.5°	190.6
30°	169.1
32.5°	147.9
35°	126.8
37.5°	105.7
40°	85.5
42.5°	66.7
45°	49.9
47.5°	34.8
50°	23.7
52.5°	16.3
55°	11.2
57.5°	7.6
60°	5.2
62.5°	3.6
65°	2.4
67.5°	1.2
70°	0.8
72.5°	0.7
75°	0.7
77.5°	0.5
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0



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— 0°-180°







(END OF REPORT)