

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: P752825

Luminaire Tested: LD4D70BD010-EU4DR6570959050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752825
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: LD4D70BD010-EU4DR6570959050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998.4 lumens
Efficiency: N/A
Efficacy: 105.1 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): 66.6
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

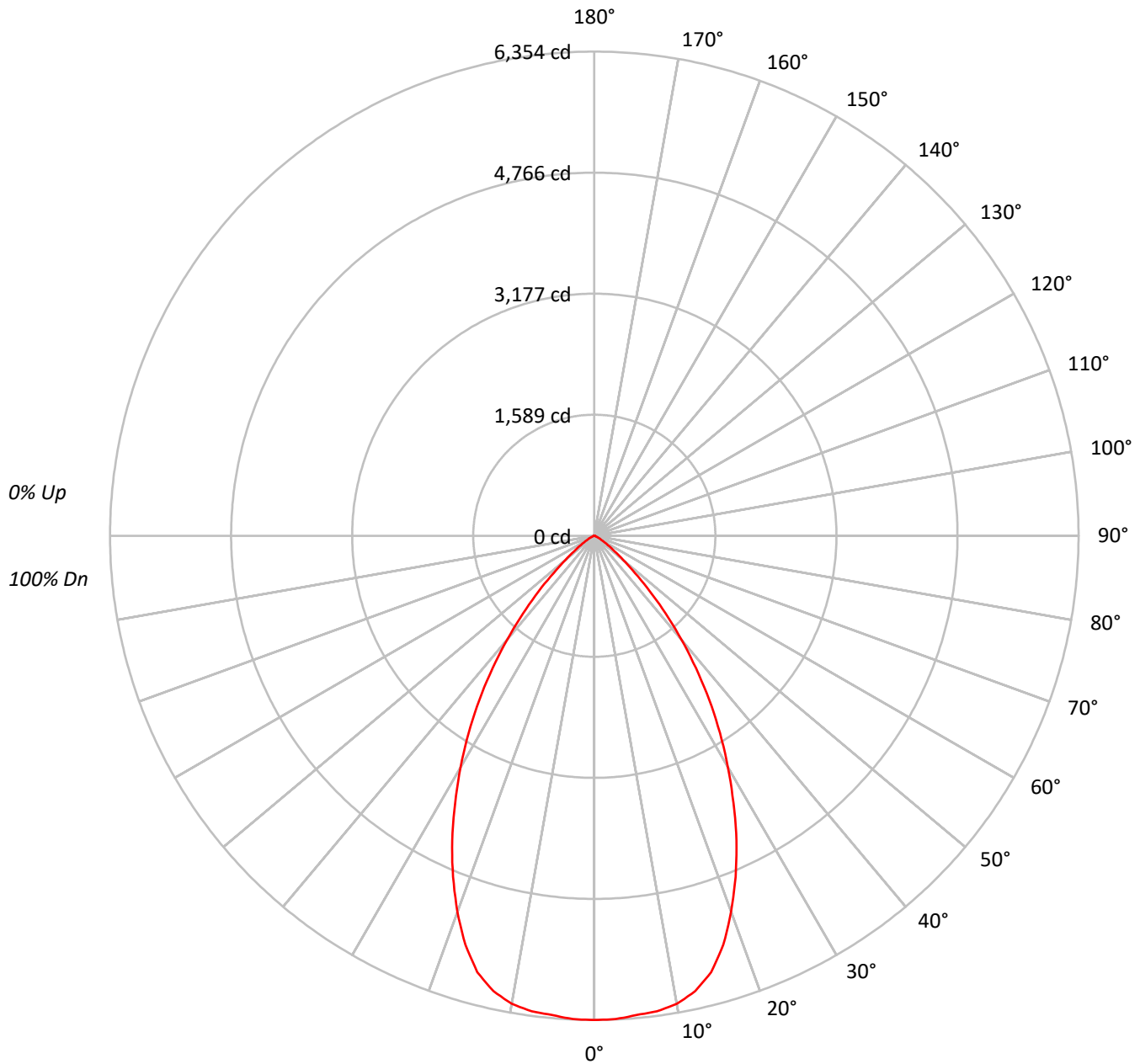


Downlight

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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°	371116
5°	370182
10°	369867
15°	358462
20°	326336
25°	284381
30°	236529
35°	187414
40°	135266
45°	85453
50°	44540
55°	23674
60°	12440
65°	6841
70°	2869
75°	3159
80°	2186
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 85453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.9	8.6
10°-20°	1645.5	23.5
20°-30°	2011.4	28.7
30°-40°	1632.0	23.3
40°-50°	813.3	11.6
50°-60°	226.8	3.2
60°-70°	51.6	0.7
70°-80°	13.4	0.2
80°-90°	3.4	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°	4257.9	60.8
0°-40°	5889.9	84.2
0°-60°	6930.0	99.0
0°-90°	6998.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6998.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6354	
5°	6314	601
15°	5928	1646
25°	4413	2011
35°	2629	1632
45°	1035	813
55°	232	227
65°	50	52
75°	14	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6354.3
2.5°	6349.7
5°	6314.2
7.5°	6293.6
10°	6236.7
12.5°	6120.9
15°	5928.5
17.5°	5627.9
20°	5250.6
22.5°	4843.5
25°	4413.0
27.5°	3952.7
30°	3507.3
32.5°	3067.4
35°	2628.6
37.5°	2190.6
40°	1774.2
42.5°	1383.9
45°	1034.6
47.5°	720.9
50°	490.2
52.5°	338.0
55°	232.5
57.5°	156.9
60°	106.5
62.5°	73.8
65°	49.5
67.5°	25.2
70°	16.8
72.5°	15.9
75°	14.0
77.5°	9.3
80°	6.5
82.5°	4.7
85°	2.8
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)