

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: P752617

Luminaire Tested: LD4D70BD010-EU4DR5570959027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR5570959027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7441.2 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' 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

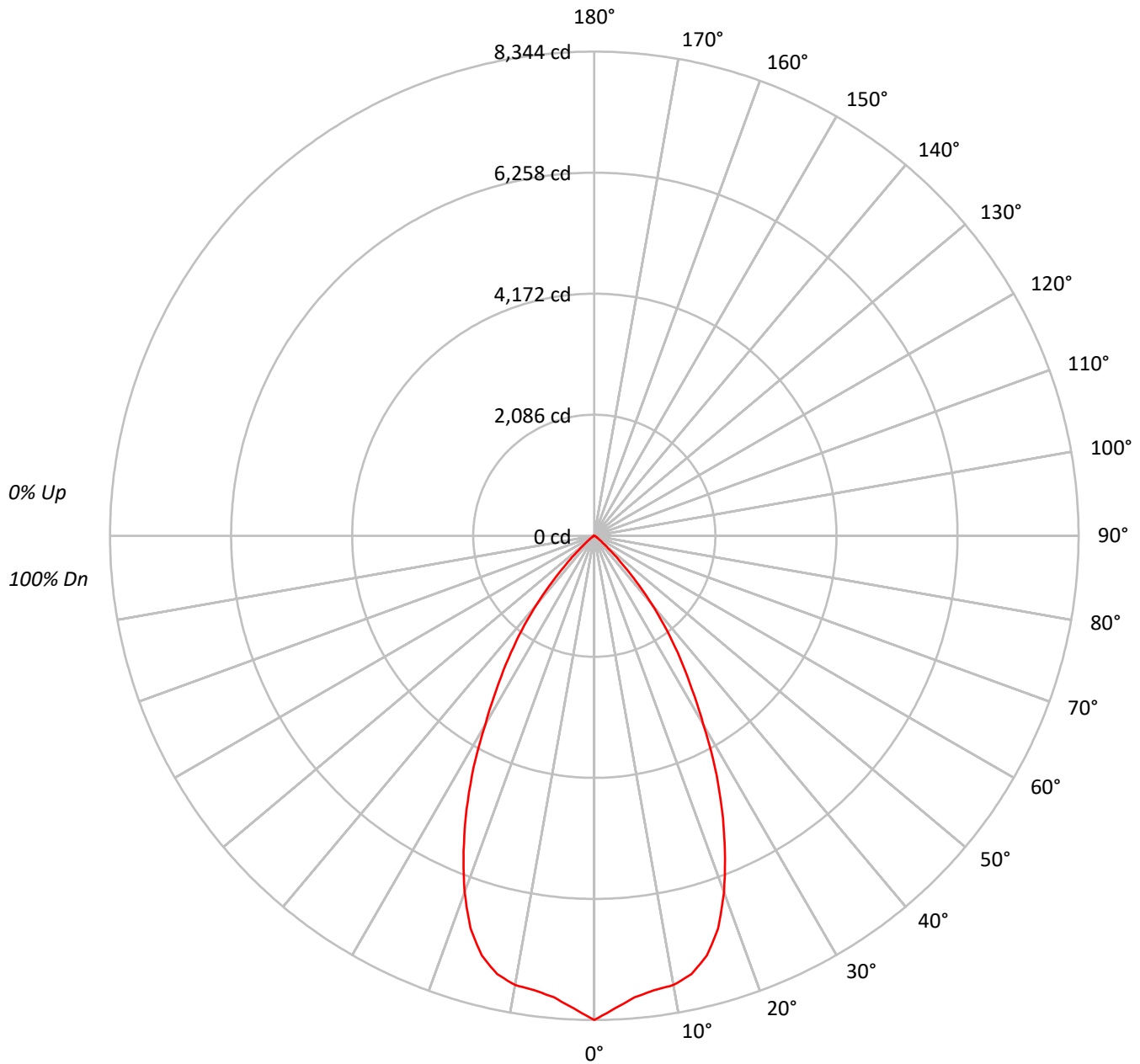


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61		
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54		
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	911694
5°	875484
10°	872182
15°	847130
20°	759564
25°	627747
30°	474185
35°	343821
40°	220035
45°	100499
50°	32874
55°	14172
60°	6097
65°	801
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 100499 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.6	10.2
10°-20°	2073.0	27.9
20°-30°	2362.3	31.7
30°-40°	1608.2	21.6
40°-50°	554.2	7.4
50°-60°	76.6	1.0
60°-70°	7.4	0.1
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°	5194.9	69.8
0°-40°	6803.1	91.4
0°-60°	7433.8	99.9
0°-90°	7441.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7441.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8344	
5°	7982	760
15°	7489	2073
25°	5207	2362
35°	2578	1608
45°	650	554
55°	74	77
65°	3	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8344.2
2.5°	8152.9
5°	7982.3
7.5°	7898.5
10°	7861.3
12.5°	7737.2
15°	7489.1
17.5°	7095.1
20°	6532.6
22.5°	5883.3
25°	5207.1
27.5°	4503.0
30°	3758.5
32.5°	3127.8
35°	2577.7
37.5°	2054.5
40°	1542.7
42.5°	1069.1
45°	650.4
47.5°	350.5
50°	193.4
52.5°	114.8
55°	74.4
57.5°	47.6
60°	27.9
62.5°	12.4
65°	3.1
67.5°	1.0
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)