

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: P752331

Luminaire Tested: LD4D70BD010-EU4DR3570959035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR3570959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7236.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

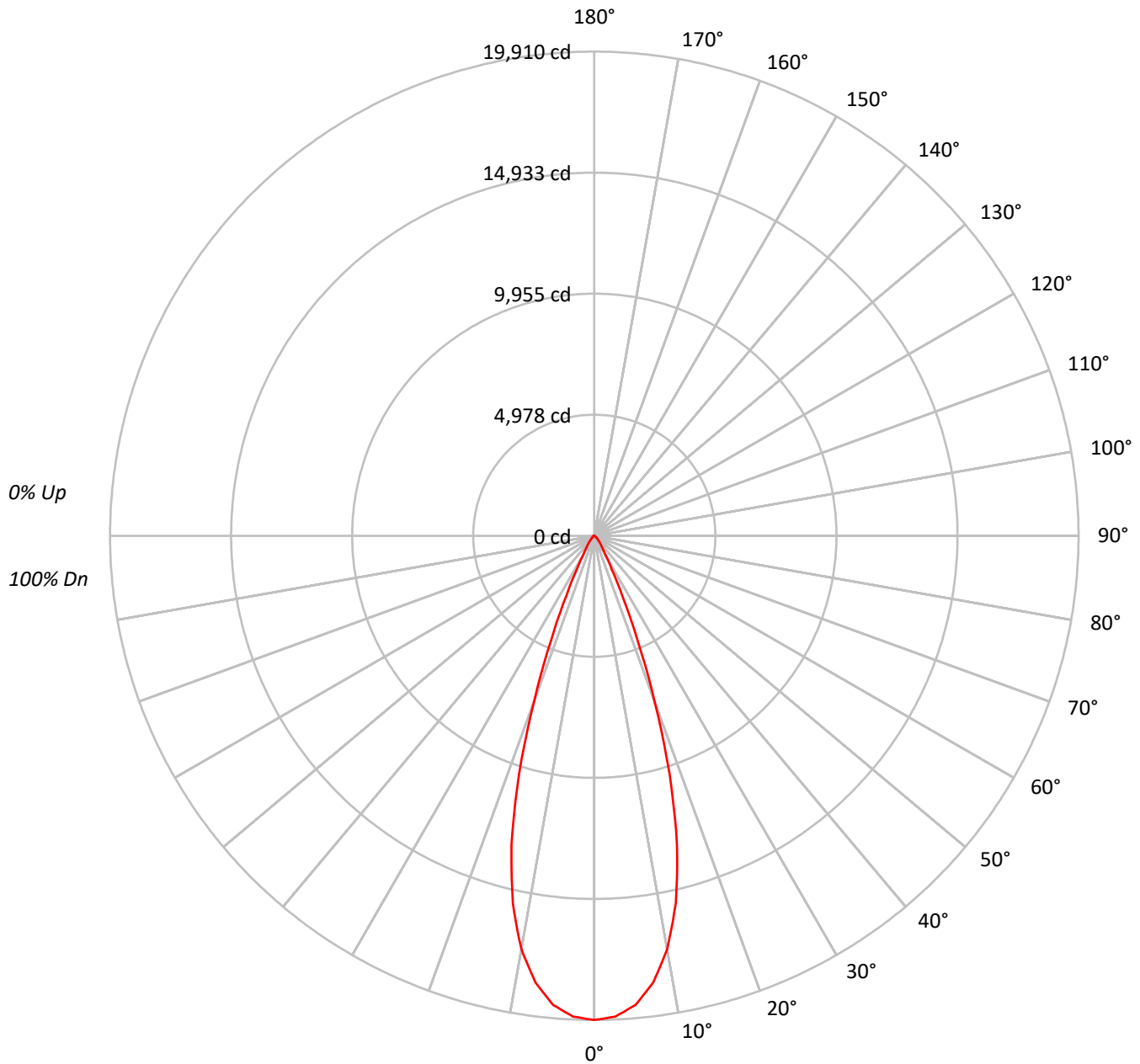


Downlight

TEST NUMBER: P752331

CATALOG NUMBER: LD4D70BD010-EU4DR3570959035-4LBS1LI

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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96						
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92						
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88						
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84						
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81						
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78						
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75						
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72						
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70						
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2175414
5°	2124301
10°	1914556
15°	1486004
20°	842839
25°	327900
30°	122328
35°	67052
40°	43830
45°	26670
50°	16981
55°	12001
60°	8785
65°	4783
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1781.3	24.6
10°-20°	3477.9	48.1
20°-30°	1418.4	19.6
30°-40°	339.4	4.7
40°-50°	141.4	2.0
50°-60°	58.6	0.8
60°-70°	18.3	0.3
70°-80°	0.4	0.0
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°	6677.7	92.3
0°-40°	7017.1	97.0
0°-60°	7217.1	99.7
0°-90°	7236.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7236.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19910	
5°	19368	###
15°	13137	3478
25°	2720	1418
35°	503	339
45°	173	141
55°	63	59
65°	18	18
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19910.3
2.5°	19790.9
5°	19368.5
7.5°	18525.9
10°	17256.6
12.5°	15469.4
15°	13137.1
17.5°	10284.7
20°	7248.8
22.5°	4622.3
25°	2719.9
27.5°	1537.5
30°	969.6
32.5°	680.8
35°	502.7
37.5°	388.7
40°	307.3
42.5°	236.7
45°	172.6
47.5°	129.2
50°	99.9
52.5°	79.3
55°	63.0
57.5°	51.0
60°	40.2
62.5°	29.3
65°	18.5
67.5°	6.5
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)