

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: P752899

Luminaire Tested: LD4D70BD010-EU4DR7070959050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR7070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7658.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): 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

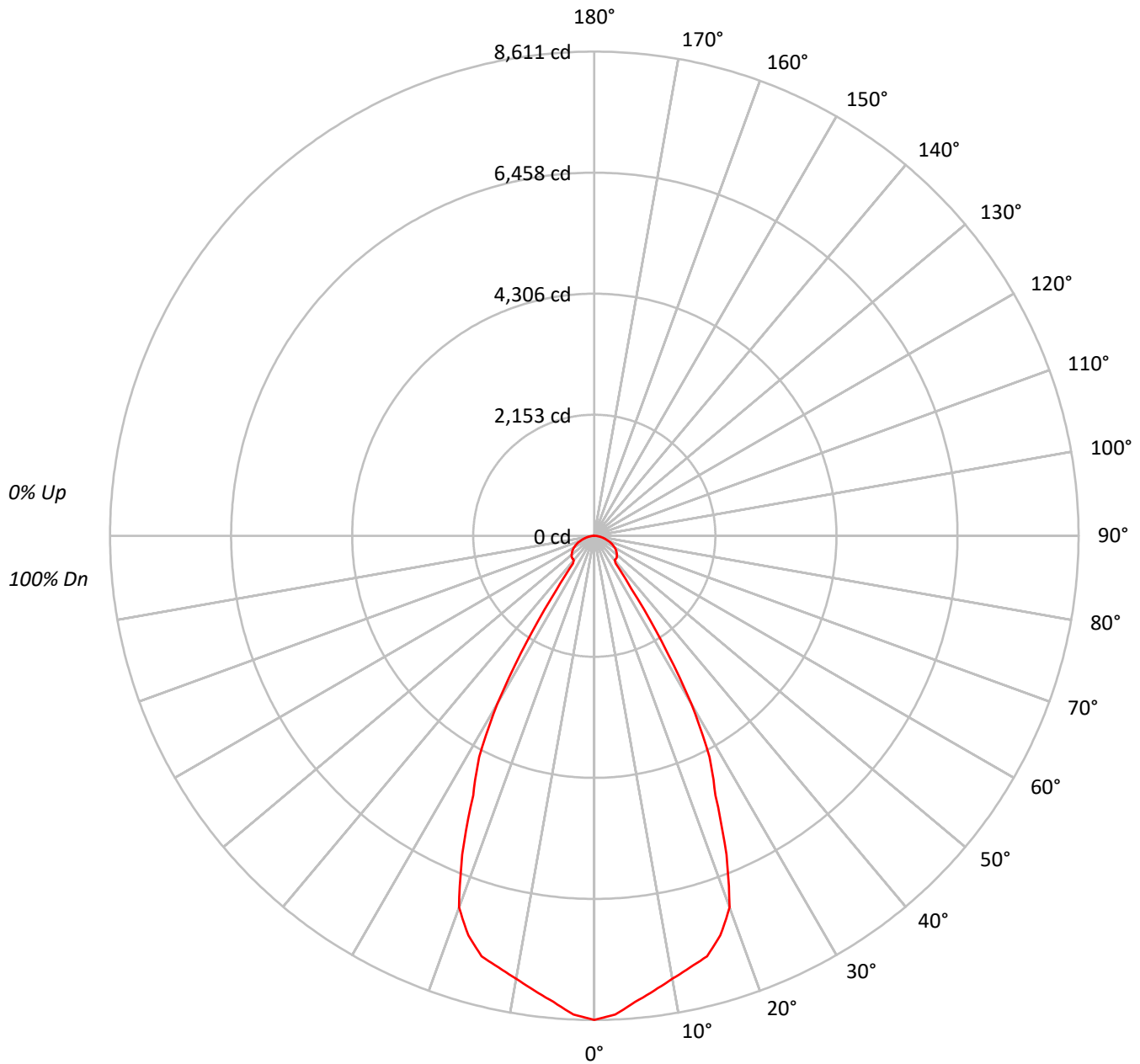


Downlight

TEST NUMBER: P752899

CATALOG NUMBER: LD4D70BD010-EU4DR7070959050-4LBDP1LI

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103		110	107	104	102		103	101	99		99	97	96		95	94	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	87	85
3	100	92	87	82		98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	86	80	75		92	85	79	74		82	77	73		80	76	73		78	75	72
5	89	80	74	69		87	79	73	69		77	72	68		75	71	67		74	70	67
6	85	75	68	64		83	74	68	64		73	67	63		71	66	63		70	66	62
7	80	70	64	59		79	70	64	59		68	63	59		67	62	59		66	62	58
8	77	66	60	56		75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	63	57	52		72	62	56	52		61	56	52		60	55	52		60	55	52
10	70	59	53	49		69	59	53	49		58	53	49		57	52	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	940812
5°	912862
10°	887415
15°	875771
20°	817794
25°	614365
30°	434305
35°	153844
40°	80885
45°	86159
50°	89222
55°	90902
60°	91451
65°	89530
70°	84496
75°	78267
80°	69465
85°	56413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 91488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.0	10.3
10°-20°	2153.3	28.1
20°-30°	2371.6	31.0
30°-40°	906.1	11.8
40°-50°	427.9	5.6
50°-60°	425.4	5.6
60°-70°	340.6	4.4
70°-80°	195.7	2.6
80°-90°	53.2	0.7
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°	5310.0	69.3
0°-40°	6216.1	81.2
0°-60°	7069.3	92.3
0°-90°	7658.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7658.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8611	
5°	8323	785
15°	7742	2153
25°	5096	2372
35°	1153	906
45°	558	428
55°	477	425
65°	346	341
75°	185	196
85°	45	53
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8610.7
2.5°	8520.7
5°	8323.1
7.5°	8158.1
10°	7998.6
12.5°	7863.6
15°	7742.3
17.5°	7449.2
20°	7033.4
22.5°	6136.3
25°	5096.1
27.5°	4436.2
30°	3442.4
32.5°	2223.6
35°	1153.4
37.5°	623.0
40°	567.1
42.5°	563.1
45°	557.6
47.5°	545.3
50°	524.9
52.5°	501.7
55°	477.2
57.5°	449.9
60°	418.5
62.5°	383.1
65°	346.3
67.5°	305.4
70°	264.5
72.5°	223.6
75°	185.4
77.5°	145.9
80°	110.4
82.5°	77.7
85°	45.0
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)