

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: P752499

Luminaire Tested: LD4D70BD010-EU4DR4570959040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR4570959040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.3 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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

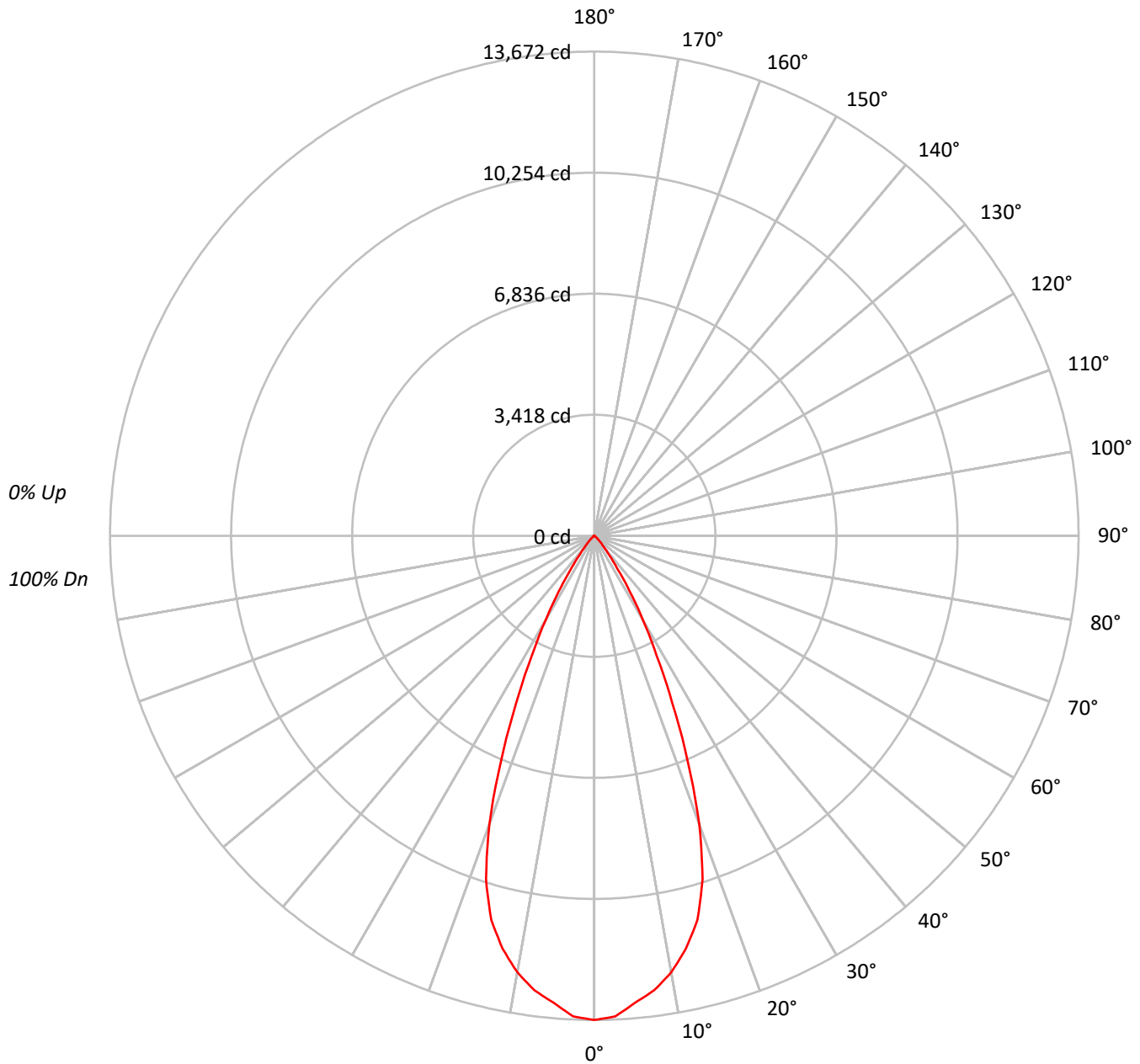


Downlight

TEST NUMBER: P752499

CATALOG NUMBER: LD4D70BD010-EU4DR4570959040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P752499

CATALOG NUMBER: LD4D70BD010-EU4DR4570959040-4LBS1H

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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1493846
5°	1451316
10°	1388515
15°	1270780
20°	1008167
25°	629410
30°	346912
35°	155778
40°	61359
45°	28910
50°	13717
55°	7162
60°	3518
65°	827
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28910 cd/sqm



TEST NUMBER: P752499

CATALOG NUMBER: LD4D70BD010-EU4DR4570959040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1243.3	16.1
10°-20°	3060.0	39.6
20°-30°	2423.2	31.3
30°-40°	806.9	10.4
40°-50°	160.1	2.1
50°-60°	36.4	0.5
60°-70°	5.2	0.1
70°-80°	0.1	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°	6726.4	87.0
0°-40°	7533.4	97.4
0°-60°	7729.9	99.9
0°-90°	7735.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7735.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13672	
5°	13232	###
15°	11234	3060
25°	5221	2423
35°	1168	807
45°	187	160
55°	38	36
65°	3	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P752499

CATALOG NUMBER: LD4D70BD010-EU4DR4570959040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	13672.3
2.5°	13583.1
5°	13232.5
7.5°	12943.2
10°	12515.2
12.5°	11945.3
15°	11234.4
17.5°	10165.5
20°	8670.7
22.5°	6889.9
25°	5220.9
27.5°	3823.0
30°	2749.7
32.5°	1870.1
35°	1167.9
37.5°	692.5
40°	430.2
42.5°	282.8
45°	187.1
47.5°	120.4
50°	80.7
52.5°	53.8
55°	37.6
57.5°	24.7
60°	16.1
62.5°	8.6
65°	3.2
67.5°	1.1
70°	1.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)