

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: P752849

Luminaire Tested: LD4D70BD010-EU4DR7070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR7070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511.8 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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

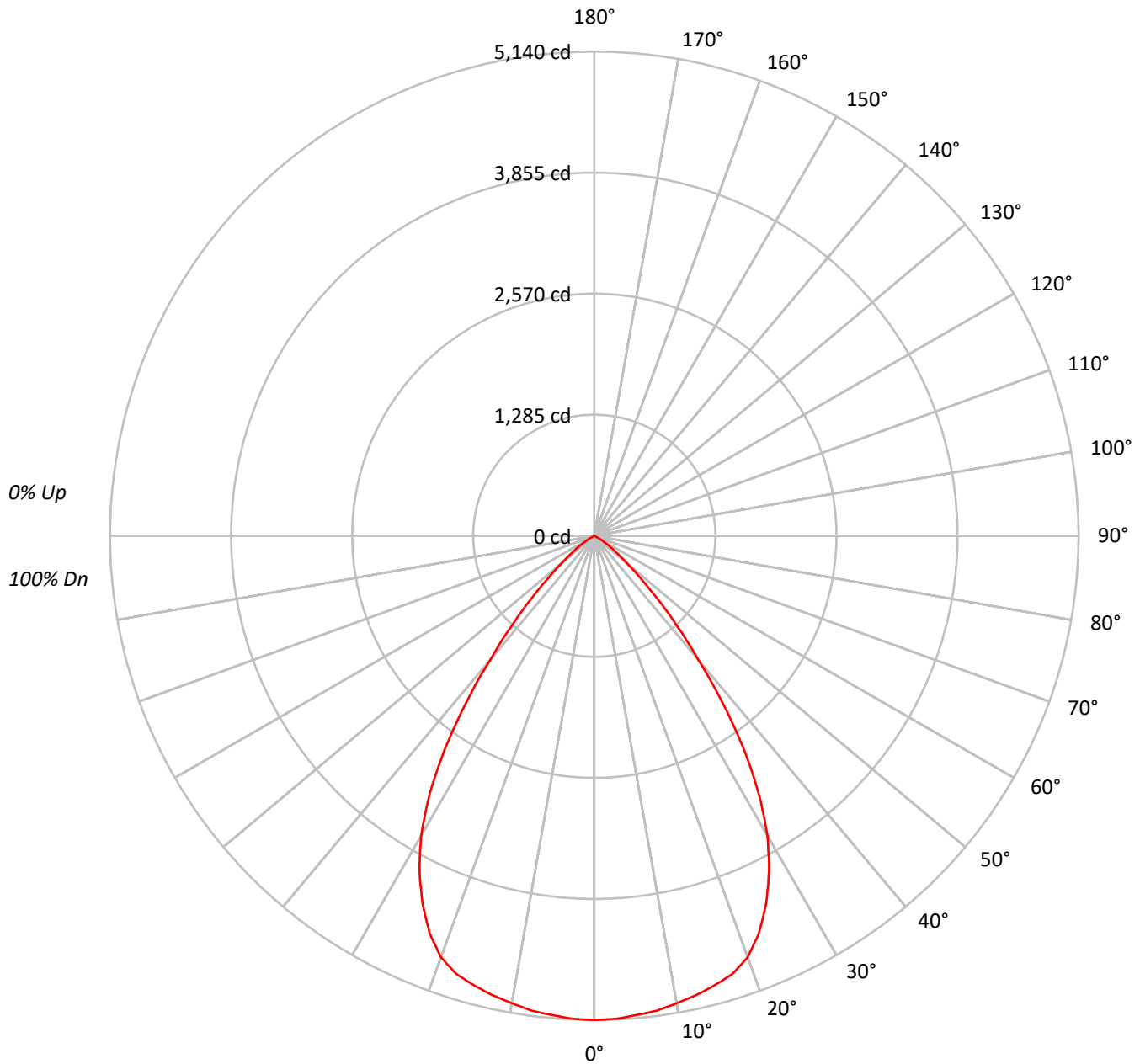


Downlight

TEST NUMBER: P752849

CATALOG NUMBER: LD4D70BD010-EU4DR7070959027-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P752849

CATALOG NUMBER: LD4D70BD010-EU4DR7070959027-4LBS1B

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	106	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	85	82		87	84	81		85
4	95	87	81	76	93	86	80	76	83	78	75		81	77	74		79
5	89	80	74	69	88	79	73	69	78	72	68		76	71	68		74
6	84	75	68	63	83	74	68	63	72	67	63		71	66	62		69
7	80	69	63	58	78	69	62	58	67	62	58		66	61	57		65
8	75	65	58	54	74	64	58	54	63	57	53		62	57	53		61
9	71	61	54	50	70	60	54	50	59	53	50		58	53	49		57
10	67	57	50	46	66	56	50	46	55	50	46		55	50	46		54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	561557
5°	560159
10°	558947
15°	558788
20°	553331
25°	519777
30°	463386
35°	369457
40°	245323
45°	146669
50°	76032
55°	39965
60°	14138
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 146669 cd/sqm



TEST NUMBER: P752849

CATALOG NUMBER: LD4D70BD010-EU4DR7070959027-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	7.5
10°-20°	1393.0	21.4
20°-30°	1965.1	30.2
30°-40°	1696.4	26.1
40°-50°	759.7	11.7
50°-60°	198.9	3.1
60°-70°	12.9	0.2
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°	3843.8	59.0
0°-40°	5540.2	85.1
0°-60°	6498.8	99.8
0°-90°	6511.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6511.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5140	
5°	5107	486
15°	4940	1393
25°	4312	1965
35°	2770	1696
45°	949	760
55°	210	199
65°	1	13
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P752849

CATALOG NUMBER: LD4D70BD010-EU4DR7070959027-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	5139.6
2.5°	5134.1
5°	5107.3
7.5°	5085.1
10°	5038.0
12.5°	4995.5
15°	4940.0
17.5°	4876.2
20°	4758.9
22.5°	4565.7
25°	4311.5
27.5°	4016.7
30°	3672.9
32.5°	3252.4
35°	2769.9
37.5°	2237.6
40°	1720.0
42.5°	1306.9
45°	949.2
47.5°	654.4
50°	447.3
52.5°	308.7
55°	209.8
57.5°	126.6
60°	64.7
62.5°	20.3
65°	0.9
67.5°	0.0
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)