

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: P752449

Luminaire Tested: LD4D70BD010-EU4DR4570959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752449
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-EU4DR4570959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5949.9 lumens
Efficiency: N/A
Efficacy: 89.3 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 (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

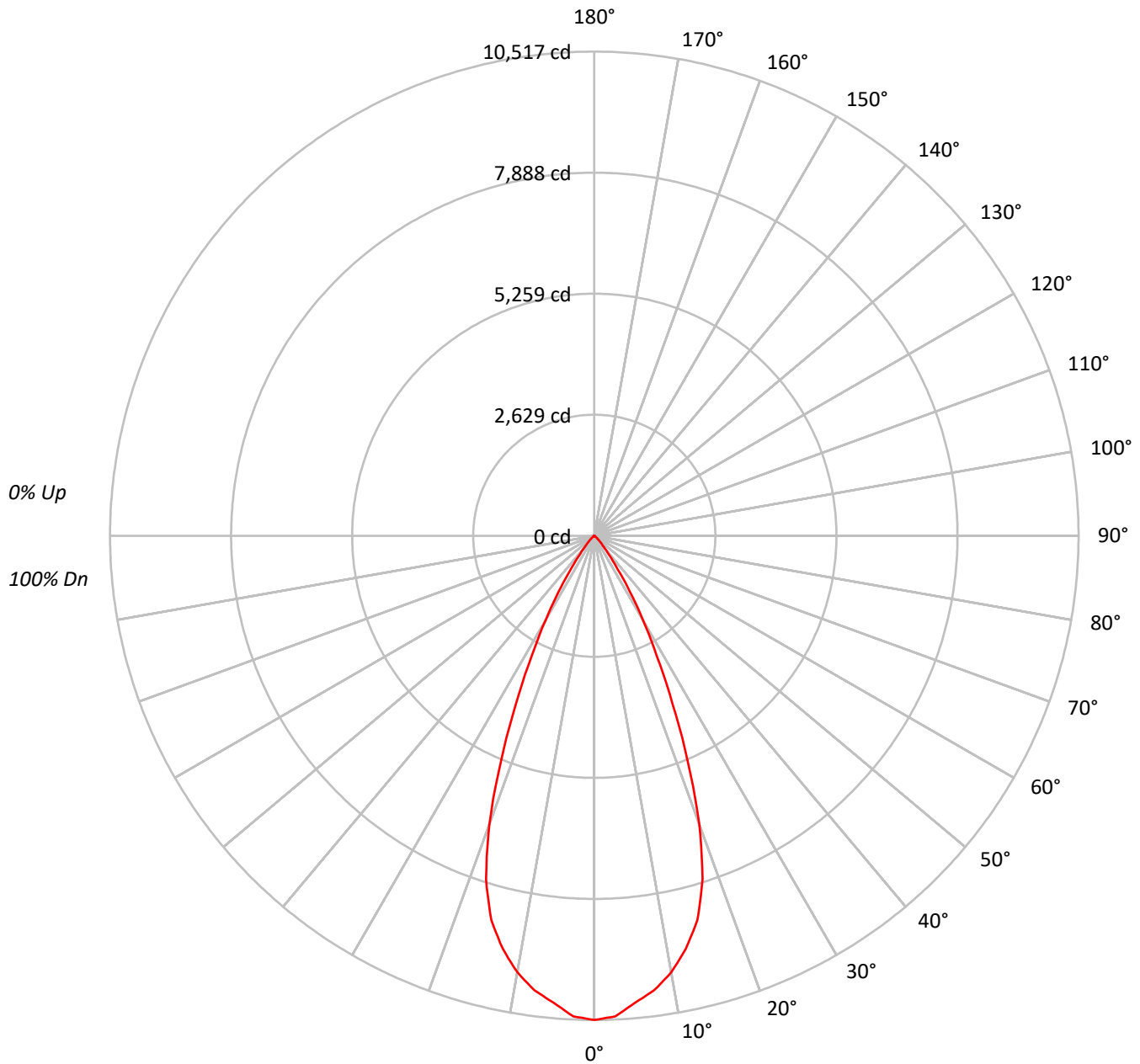


Downlight

TEST NUMBER: P752449

CATALOG NUMBER: LD4D70BD010-EU4DR4570959024-4LBS1MW

Luminous Intensity Polar Plot



TEST NUMBER: P752449

CATALOG NUMBER: LD4D70BD010-EU4DR4570959024-4LBS1MW

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	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	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95		
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1149063
5°	1116348
10°	1068047
15°	977484
20°	775482
25°	484140
30°	266848
35°	119818
40°	47196
45°	22235
50°	10539
55°	5524
60°	2710
65°	646
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22235 cd/sqm

TEST NUMBER: P752449

CATALOG NUMBER: LD4D70BD010-EU4DR4570959024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.4	16.1
10°-20°	2353.7	39.6
20°-30°	1863.9	31.3
30°-40°	620.7	10.4
40°-50°	123.2	2.1
50°-60°	28.0	0.5
60°-70°	4.0	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°	5174.0	87.0
0°-40°	5794.7	97.4
0°-60°	5945.8	99.9
0°-90°	5949.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5949.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10517	
5°	10178	956
15°	8642	2354
25°	4016	1864
35°	898	621
45°	144	123
55°	29	28
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P752449

CATALOG NUMBER: LD4D70BD010-EU4DR4570959024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	10516.7
2.5°	10448.1
5°	10178.4
7.5°	9955.9
10°	9626.7
12.5°	9188.3
15°	8641.5
17.5°	7819.3
20°	6669.5
22.5°	5299.7
25°	4015.9
27.5°	2940.6
30°	2115.1
32.5°	1438.5
35°	898.3
37.5°	532.7
40°	330.9
42.5°	217.5
45°	143.9
47.5°	92.6
50°	62.0
52.5°	41.4
55°	29.0
57.5°	19.0
60°	12.4
62.5°	6.6
65°	2.5
67.5°	0.8
70°	0.8
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)