

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: P779739

Luminaire Tested: LER4D10D010-EC4DR650210IC9050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D10D010-EC4DR650210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 939.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



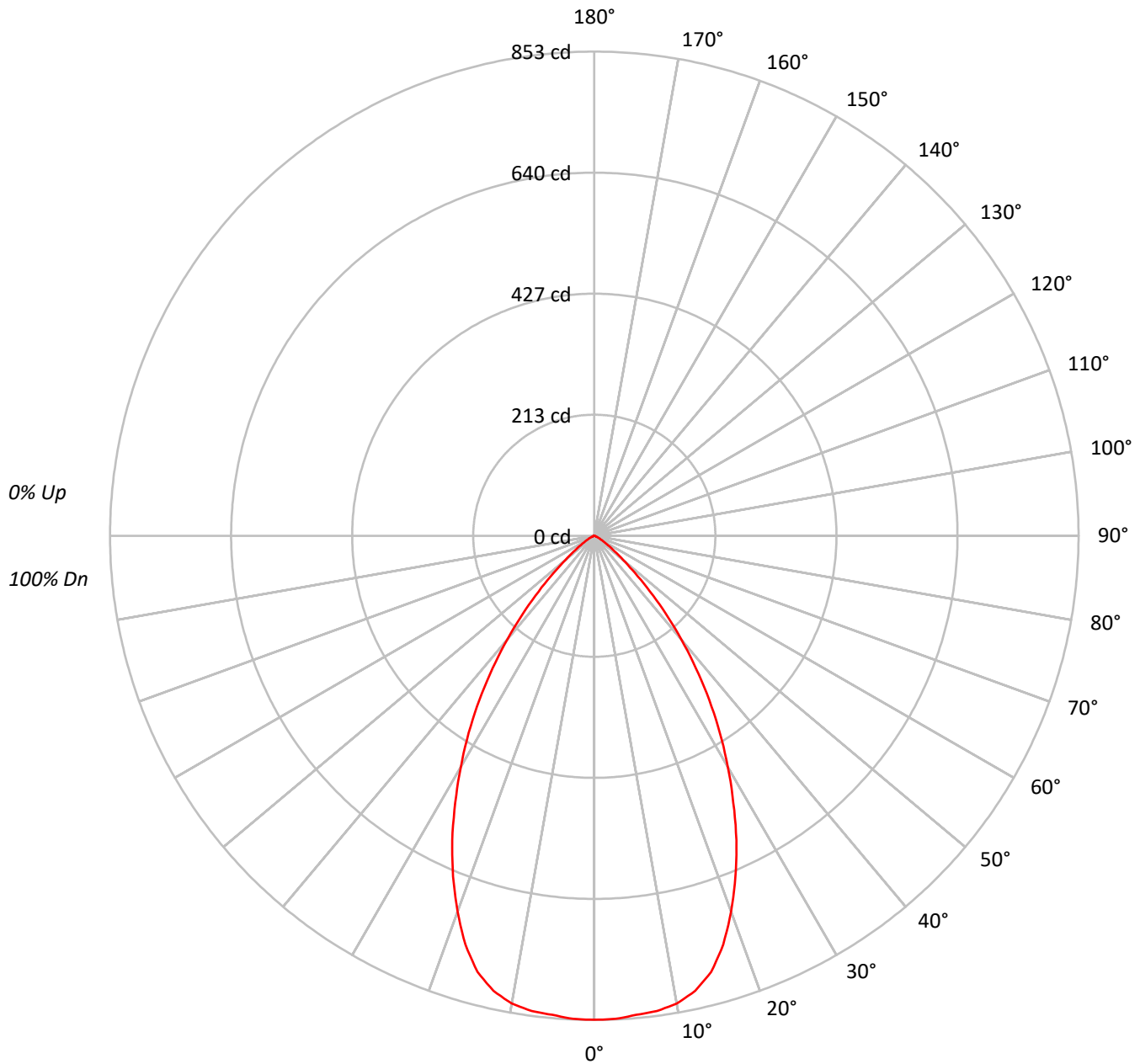
Downlight



TEST NUMBER: P779739

CATALOG NUMBER: LER4D10D010-EC4DR650210IC9050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P779739

CATALOG NUMBER: LER4D10D010-EC4DR650210IC9050-4LBS1MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	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	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49795
5°	49669
10°	49626
15°	48099
20°	43786
25°	38156
30°	31737
35°	25147
40°	18153
45°	11464
50°	5979
55°	3177
60°	1670
65°	912
70°	376
75°	429
80°	303
85°	268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11464 cd/sqm



TEST NUMBER: P779739

CATALOG NUMBER: LER4D10D010-EC4DR650210IC9050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	8.6
10°-20°	220.8	23.5
20°-30°	269.9	28.7
30°-40°	219.0	23.3
40°-50°	109.1	11.6
50°-60°	30.4	3.2
60°-70°	6.9	0.7
70°-80°	1.8	0.2
80°-90°	0.4	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°	571.3	60.8
0°-40°	790.3	84.2
0°-60°	929.9	99.0
0°-90°	939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	853	
5°	847	81
15°	796	221
25°	592	270
35°	353	219
45°	139	109
55°	31	30
65°	7	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P779739

CATALOG NUMBER: LER4D10D010-EC4DR650210IC9050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	852.6
2.5°	852.0
5°	847.2
7.5°	844.5
10°	836.8
12.5°	821.3
15°	795.5
17.5°	755.1
20°	704.5
22.5°	649.9
25°	592.1
27.5°	530.4
30°	470.6
32.5°	411.6
35°	352.7
37.5°	293.9
40°	238.1
42.5°	185.7
45°	138.8
47.5°	96.7
50°	65.8
52.5°	45.4
55°	31.2
57.5°	21.0
60°	14.3
62.5°	9.9
65°	6.6
67.5°	3.4
70°	2.2
72.5°	2.1
75°	1.9
77.5°	1.3
80°	0.9
82.5°	0.6
85°	0.4
87.5°	0.2
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)