

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: P780028

Luminaire Tested: LER4D15D010-EC4DR650215IC9024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780028
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: LER4D15D010-EC4DR650215IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1003.3 lumens
Efficiency: N/A
Efficacy: 63.5 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): 15.8
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



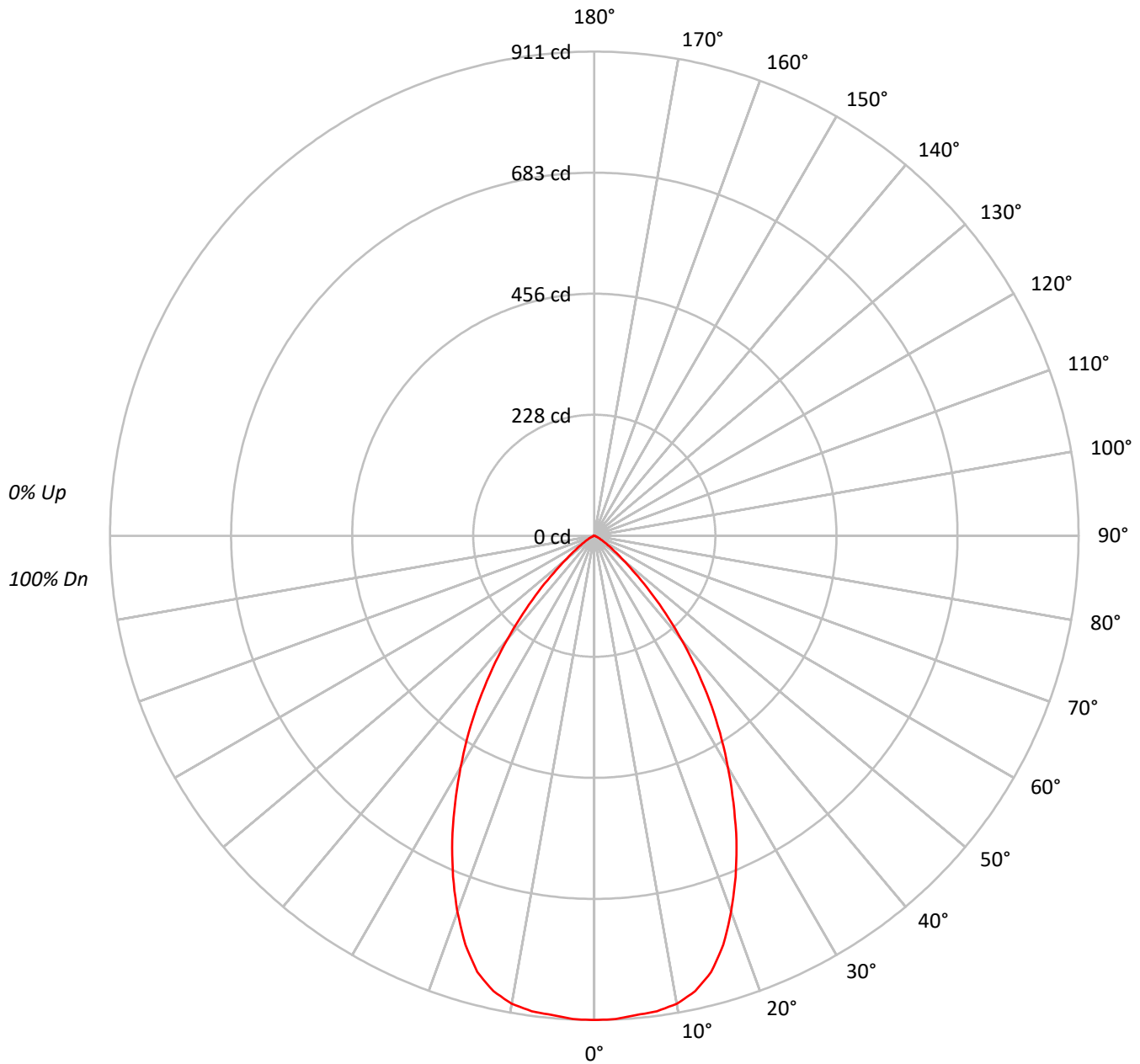
Downlight



TEST NUMBER: P780028

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9024-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P780028

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9024-4LBS1B

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	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°	53206
5°	53069
10°	53024
15°	51388
20°	46782
25°	40772
30°	33908
35°	26865
40°	19388
45°	12249
50°	6387
55°	3391
60°	1775
65°	981
70°	410
75°	451
80°	303
85°	268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12249 cd/sqm



TEST NUMBER: P780028

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	8.6
10°-20°	235.9	23.5
20°-30°	288.4	28.7
30°-40°	233.9	23.3
40°-50°	116.6	11.6
50°-60°	32.5	3.2
60°-70°	7.4	0.7
70°-80°	1.9	0.2
80°-90°	0.5	0.1
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°	610.4	60.8
0°-40°	844.4	84.2
0°-60°	993.5	99.0
0°-90°	1003.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	911	
5°	905	86
15°	850	236
25°	633	288
35°	377	234
45°	148	117
55°	33	33
65°	7	7
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P780028

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	911.0
2.5°	910.3
5°	905.2
7.5°	902.3
10°	894.1
12.5°	877.5
15°	849.9
17.5°	806.8
20°	752.7
22.5°	694.4
25°	632.7
27.5°	566.6
30°	502.8
32.5°	439.7
35°	376.8
37.5°	314.0
40°	254.3
42.5°	198.4
45°	148.3
47.5°	103.4
50°	70.3
52.5°	48.5
55°	33.3
57.5°	22.5
60°	15.2
62.5°	10.6
65°	7.1
67.5°	3.6
70°	2.4
72.5°	2.3
75°	2.0
77.5°	1.3
80°	0.9
82.5°	0.7
85°	0.4
87.5°	0.3
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)