

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: P780045

Luminaire Tested: LER4D15D010-EC4DR650215IC9040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780045
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-EC4DR650215IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1343.7 lumens
Efficiency: N/A
Efficacy: 85.0 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



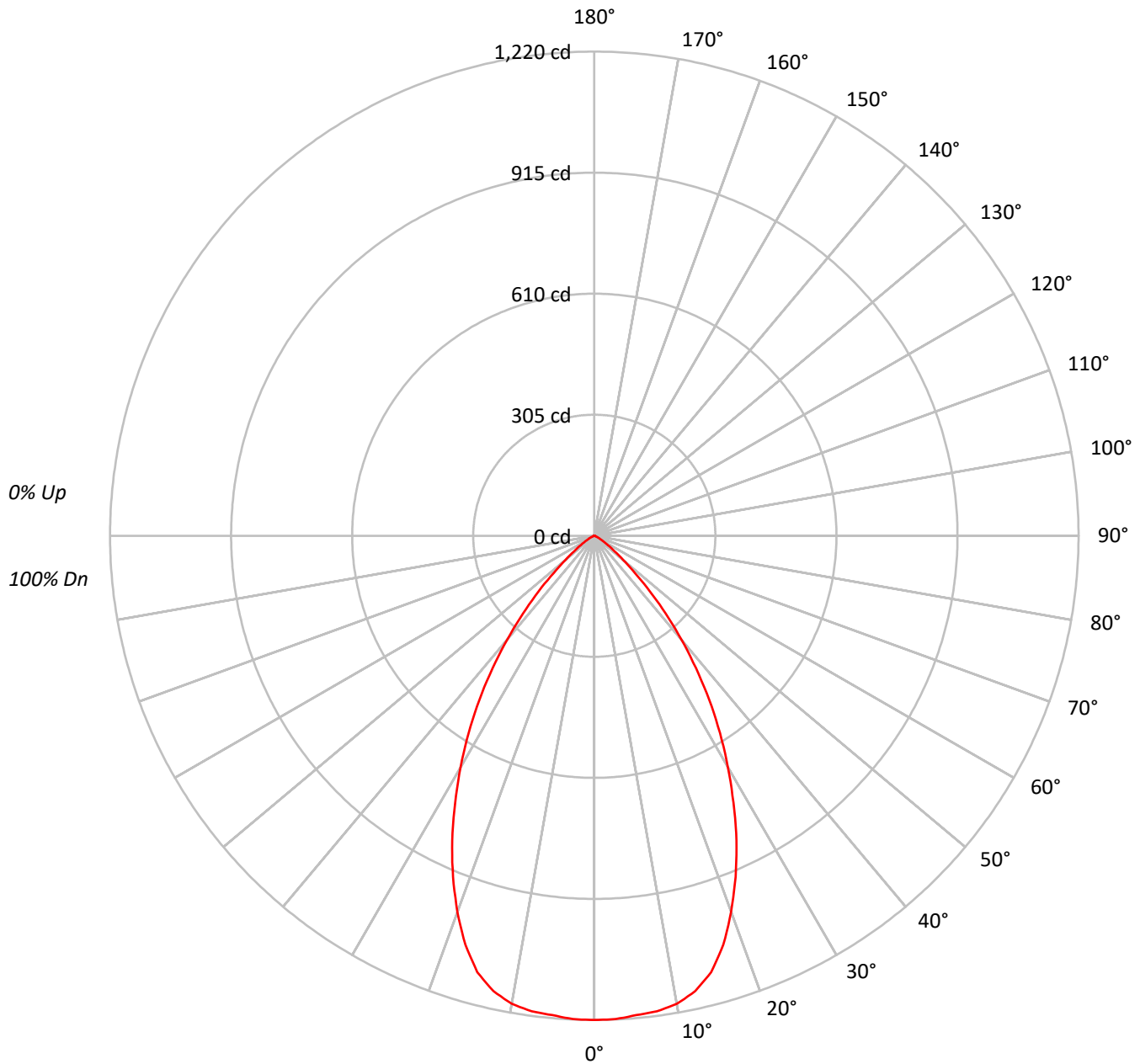
Downlight



TEST NUMBER: P780045

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P780045

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9040-4LBS1H

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	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°	71253
5°	71079
10°	71018
15°	68826
20°	62662
25°	54601
30°	45413
35°	35984
40°	25975
45°	16403
50°	8550
55°	4541
60°	2395
65°	1313
70°	546
75°	609
80°	437
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16403 cd/sqm



TEST NUMBER: P780045

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	8.6
10°-20°	316.0	23.5
20°-30°	386.2	28.7
30°-40°	313.4	23.3
40°-50°	156.1	11.6
50°-60°	43.5	3.2
60°-70°	9.9	0.7
70°-80°	2.6	0.2
80°-90°	0.6	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°	817.5	60.8
0°-40°	1130.9	84.2
0°-60°	1330.6	99.0
0°-90°	1343.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1343.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1220	
5°	1212	115
15°	1138	316
25°	847	386
35°	505	313
45°	199	156
55°	45	44
65°	10	10
75°	3	3
85°	0	1
90°	0	



TEST NUMBER: P780045

CATALOG NUMBER: LER4D15D010-EC4DR650215IC9040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1220.0
2.5°	1219.2
5°	1212.4
7.5°	1208.4
10°	1197.5
12.5°	1175.2
15°	1138.3
17.5°	1080.6
20°	1008.2
22.5°	930.0
25°	847.3
27.5°	758.9
30°	673.4
32.5°	589.0
35°	504.7
37.5°	420.6
40°	340.7
42.5°	265.7
45°	198.6
47.5°	138.4
50°	94.1
52.5°	64.9
55°	44.6
57.5°	30.1
60°	20.5
62.5°	14.2
65°	9.5
67.5°	4.8
70°	3.2
72.5°	3.0
75°	2.7
77.5°	1.8
80°	1.3
82.5°	0.9
85°	0.5
87.5°	0.3
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)