

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: P778783

Luminaire Tested: LER4D02D010-EC4DR650210IC9024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778783
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: LER4D02D010-EC4DR650210IC9024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 266.5 lumens
Efficiency: N/A
Efficacy: 52.3 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): 5.1
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



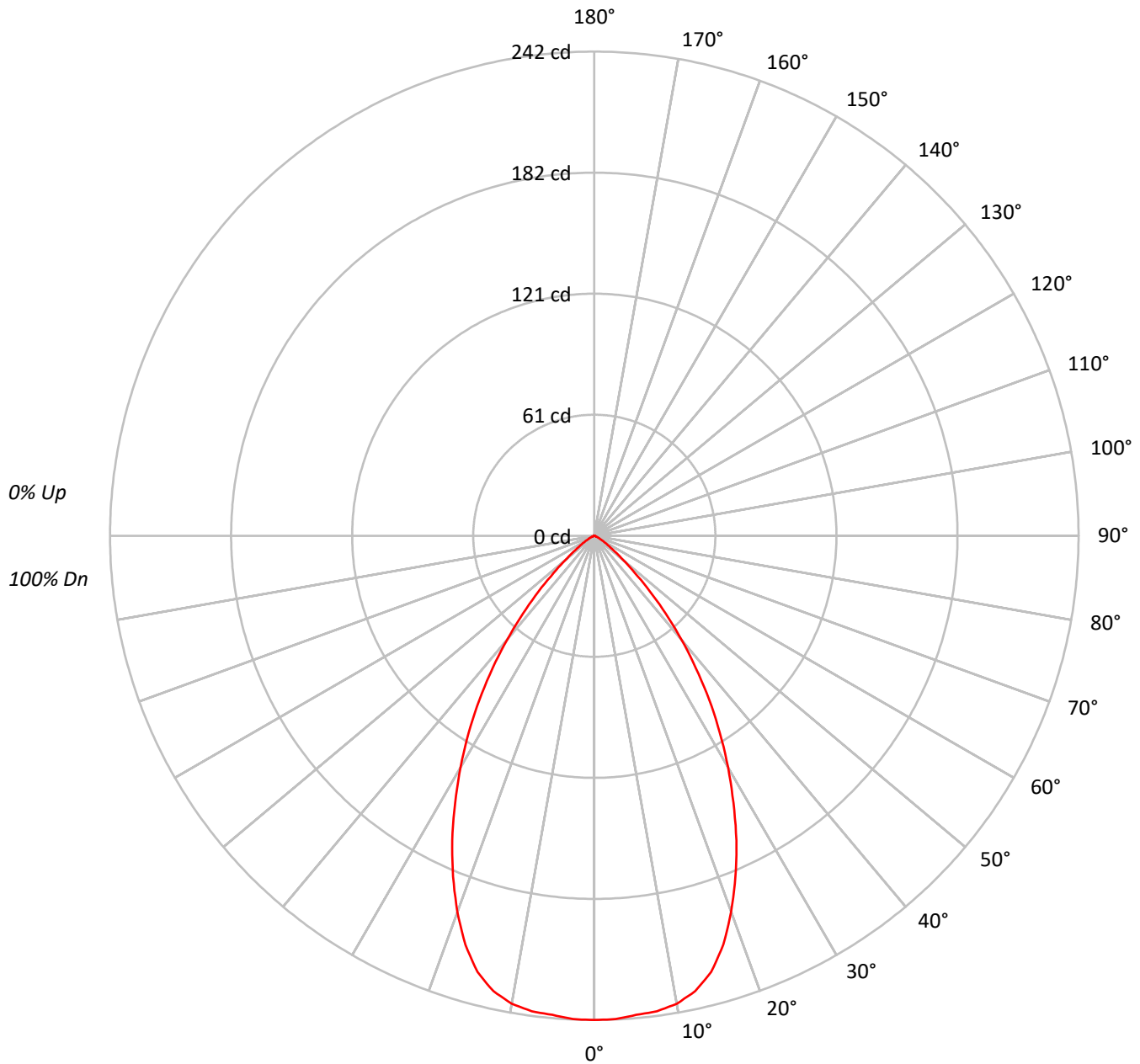
Downlight



TEST NUMBER: P778783

CATALOG NUMBER: LER4D02D010-EC4DR650210IC9024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P778783

CATALOG NUMBER: LER4D02D010-EC4DR650210IC9024-4LBS1MW

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°	14134
5°	14094
10°	14085
15°	13647
20°	12430
25°	10826
30°	9010
35°	7137
40°	5154
45°	3254
50°	1699
55°	906
60°	479
65°	263
70°	102
75°	113
80°	67
85°	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3254 cd/sqm



TEST NUMBER: P778783

CATALOG NUMBER: LER4D02D010-EC4DR650210IC9024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	8.6
10°-20°	62.7	23.5
20°-30°	76.6	28.7
30°-40°	62.1	23.3
40°-50°	31.0	11.6
50°-60°	8.7	3.3
60°-70°	2.0	0.7
70°-80°	0.5	0.2
80°-90°	0.1	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°	162.1	60.8
0°-40°	224.3	84.2
0°-60°	263.9	99.0
0°-90°	266.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	266.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	242	
5°	240	23
15°	226	63
25°	168	77
35°	100	62
45°	39	31
55°	9	9
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778783

CATALOG NUMBER: LER4D02D010-EC4DR650210IC9024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	242.0
2.5°	241.8
5°	240.4
7.5°	239.7
10°	237.5
12.5°	233.1
15°	225.7
17.5°	214.3
20°	200.0
22.5°	184.4
25°	168.0
27.5°	150.5
30°	133.6
32.5°	116.8
35°	100.1
37.5°	83.4
40°	67.6
42.5°	52.7
45°	39.4
47.5°	27.4
50°	18.7
52.5°	12.9
55°	8.9
57.5°	6.0
60°	4.1
62.5°	2.8
65°	1.9
67.5°	1.0
70°	0.6
72.5°	0.6
75°	0.5
77.5°	0.3
80°	0.2
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)