

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: P779669

Luminaire Tested: LER4D10D010-EC4DR550210IC9024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D10D010-EC4DR550210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 938.4 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' 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



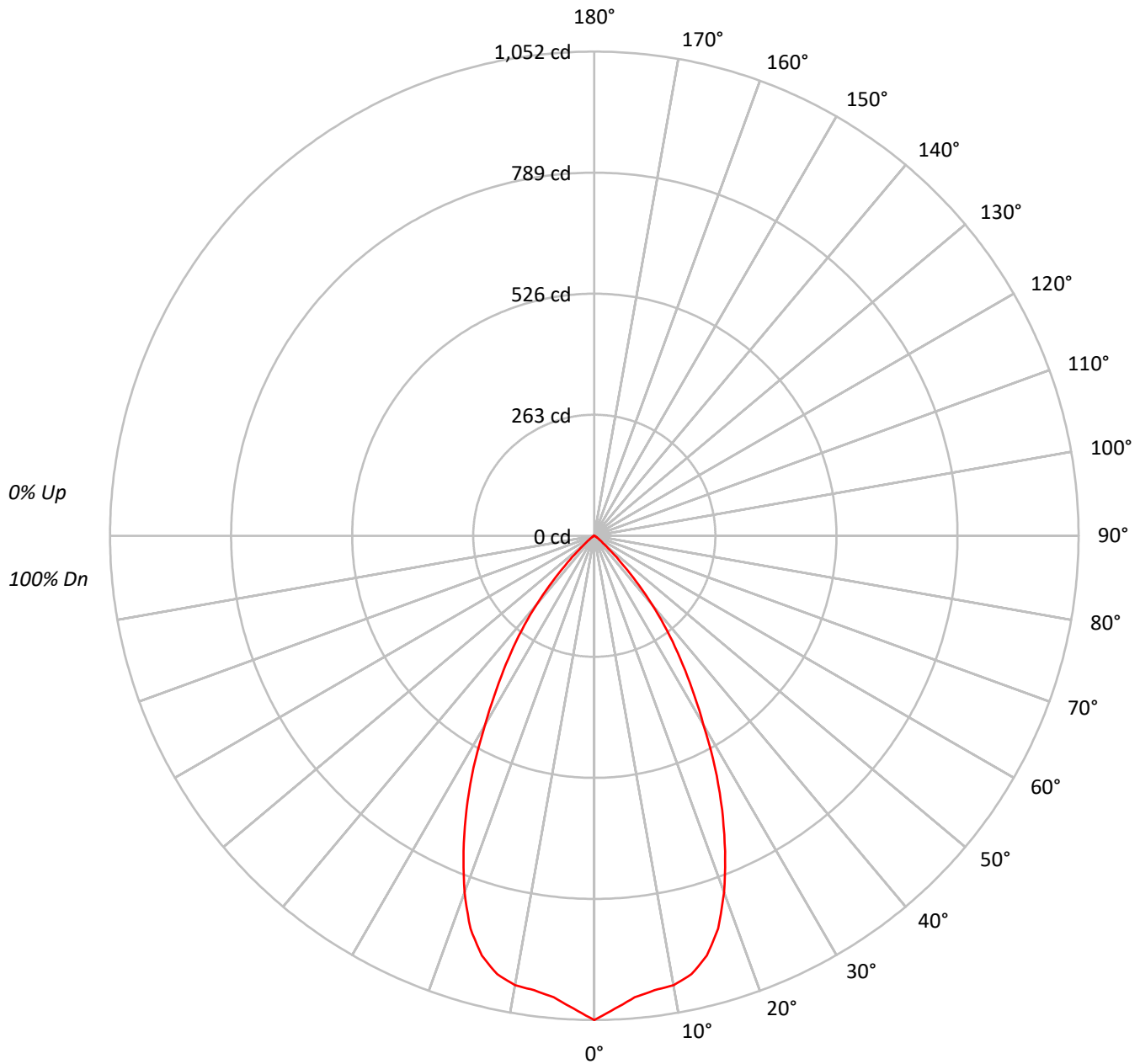
Downlight



TEST NUMBER: P779669

CATALOG NUMBER: LER4D10D010-EC4DR550210IC9024-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P779669

CATALOG NUMBER: LER4D10D010-EC4DR550210IC9024-4LBS1H

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	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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94		
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75		
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65		
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62	61		
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57		
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54		
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114975
5°	110413
10°	109992
15°	106837
20°	95797
25°	79169
30°	59801
35°	43363
40°	27756
45°	12670
50°	4148
55°	1791
60°	765
65°	103
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12670 cd/sqm



TEST NUMBER: P779669

CATALOG NUMBER: LER4D10D010-EC4DR550210IC9024-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	10.2
10°-20°	261.4	27.9
20°-30°	297.9	31.7
30°-40°	202.8	21.6
40°-50°	69.9	7.4
50°-60°	9.7	1.0
60°-70°	0.9	0.1
70°-80°	0.0	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°	655.2	69.8
0°-40°	858.0	91.4
0°-60°	937.5	99.9
0°-90°	938.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1052	
5°	1007	96
15°	944	261
25°	657	298
35°	325	203
45°	82	70
55°	9	10
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P779669

CATALOG NUMBER: LER4D10D010-EC4DR550210IC9024-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1052.3
2.5°	1028.2
5°	1006.7
7.5°	996.1
10°	991.4
12.5°	975.8
15°	944.5
17.5°	894.8
20°	823.9
22.5°	742.0
25°	656.7
27.5°	567.9
30°	474.0
32.5°	394.5
35°	325.1
37.5°	259.1
40°	194.6
42.5°	134.8
45°	82.0
47.5°	44.2
50°	24.4
52.5°	14.5
55°	9.4
57.5°	6.0
60°	3.5
62.5°	1.5
65°	0.4
67.5°	0.1
70°	0.0
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)