

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: P778753

Luminaire Tested: LER4D02D010-EC4DR550210IC9050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778753
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: LER4D02D010-EC4DR550210IC9050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 402.2 lumens
Efficiency: N/A
Efficacy: 78.9 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): 5.1
Input Voltage (V): NR
Input Current (A_{in}): 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



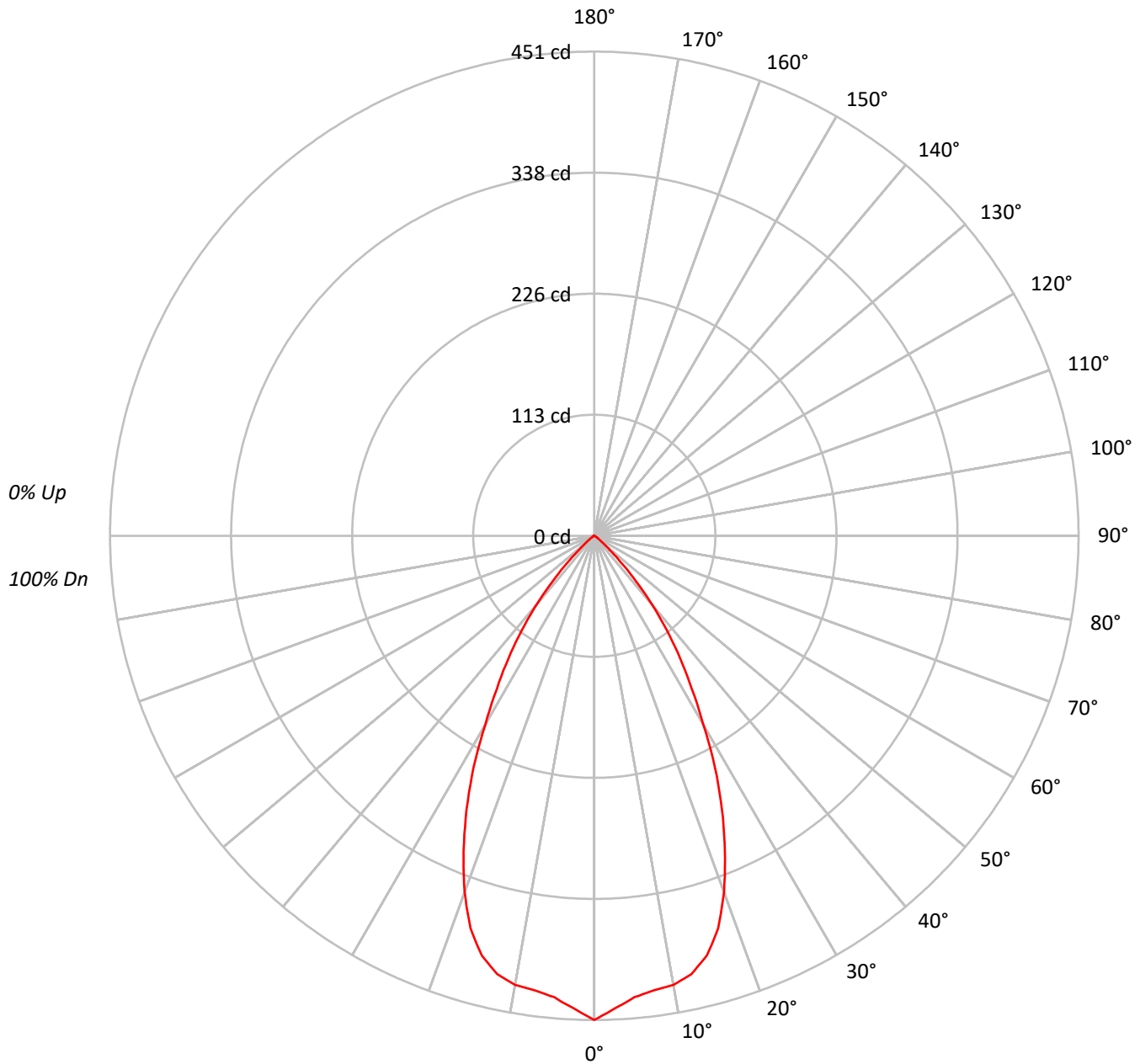
Downlight



TEST NUMBER: P778753

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P778753

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9050-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	49277
5°	47315
10°	47141
15°	45778
20°	41056
25°	33924
30°	25624
35°	18580
40°	11895
45°	5424
50°	1768
55°	762
60°	328
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5424 cd/sqm



TEST NUMBER: P778753

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	10.2
10°-20°	112.0	27.9
20°-30°	127.7	31.7
30°-40°	86.9	21.6
40°-50°	30.0	7.4
50°-60°	4.1	1.0
60°-70°	0.4	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°	280.8	69.8
0°-40°	367.7	91.4
0°-60°	401.8	99.9
0°-90°	402.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	451	
5°	431	41
15°	405	112
25°	281	128
35°	139	87
45°	35	30
55°	4	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778753

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	451.0
2.5°	440.7
5°	431.4
7.5°	426.9
10°	424.9
12.5°	418.1
15°	404.7
17.5°	383.5
20°	353.1
22.5°	318.0
25°	281.4
27.5°	243.4
30°	203.1
32.5°	169.0
35°	139.3
37.5°	111.0
40°	83.4
42.5°	57.8
45°	35.1
47.5°	19.0
50°	10.4
52.5°	6.2
55°	4.0
57.5°	2.6
60°	1.5
62.5°	0.7
65°	0.2
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)