

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: P778749

Luminaire Tested: LER4D02D010-EC4DR550210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778749
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-EC4DR550210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 407.1 lumens
Efficiency: N/A
Efficacy: 79.8 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 (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



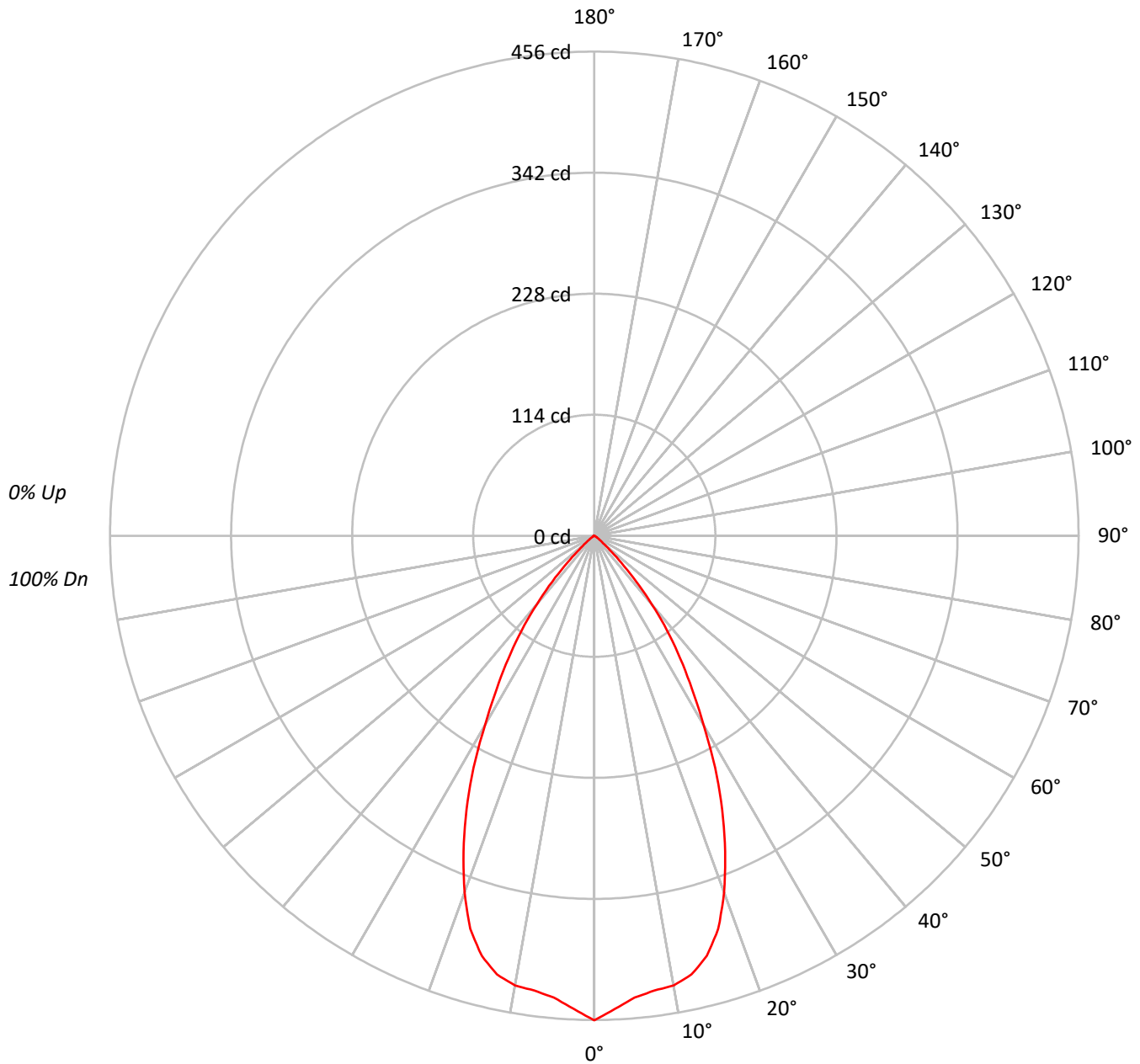
Downlight



TEST NUMBER: P778749

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P778749

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9040-4LBS1H

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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	77		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49867
5°	47874
10°	47696
15°	46332
20°	41544
25°	34334
30°	25939
35°	18807
40°	12038
45°	5501
50°	1802
55°	781
60°	328
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5501 cd/sqm



TEST NUMBER: P778749

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	10.2
10°-20°	113.4	27.9
20°-30°	129.2	31.7
30°-40°	88.0	21.6
40°-50°	30.3	7.5
50°-60°	4.2	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°	284.1	69.8
0°-40°	372.1	91.4
0°-60°	406.6	99.9
0°-90°	407.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	456	
5°	436	42
15°	410	113
25°	285	129
35°	141	88
45°	36	30
55°	4	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778749

CATALOG NUMBER: LER4D02D010-EC4DR550210IC9040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	456.4
2.5°	445.9
5°	436.5
7.5°	432.0
10°	429.9
12.5°	423.2
15°	409.6
17.5°	388.1
20°	357.3
22.5°	321.8
25°	284.8
27.5°	246.3
30°	205.6
32.5°	171.1
35°	141.0
37.5°	112.4
40°	84.4
42.5°	58.5
45°	35.6
47.5°	19.2
50°	10.6
52.5°	6.3
55°	4.1
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)