

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: P781773

Luminaire Tested: LER4D50D010-EC4DR4040509040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR4040509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5625.2 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

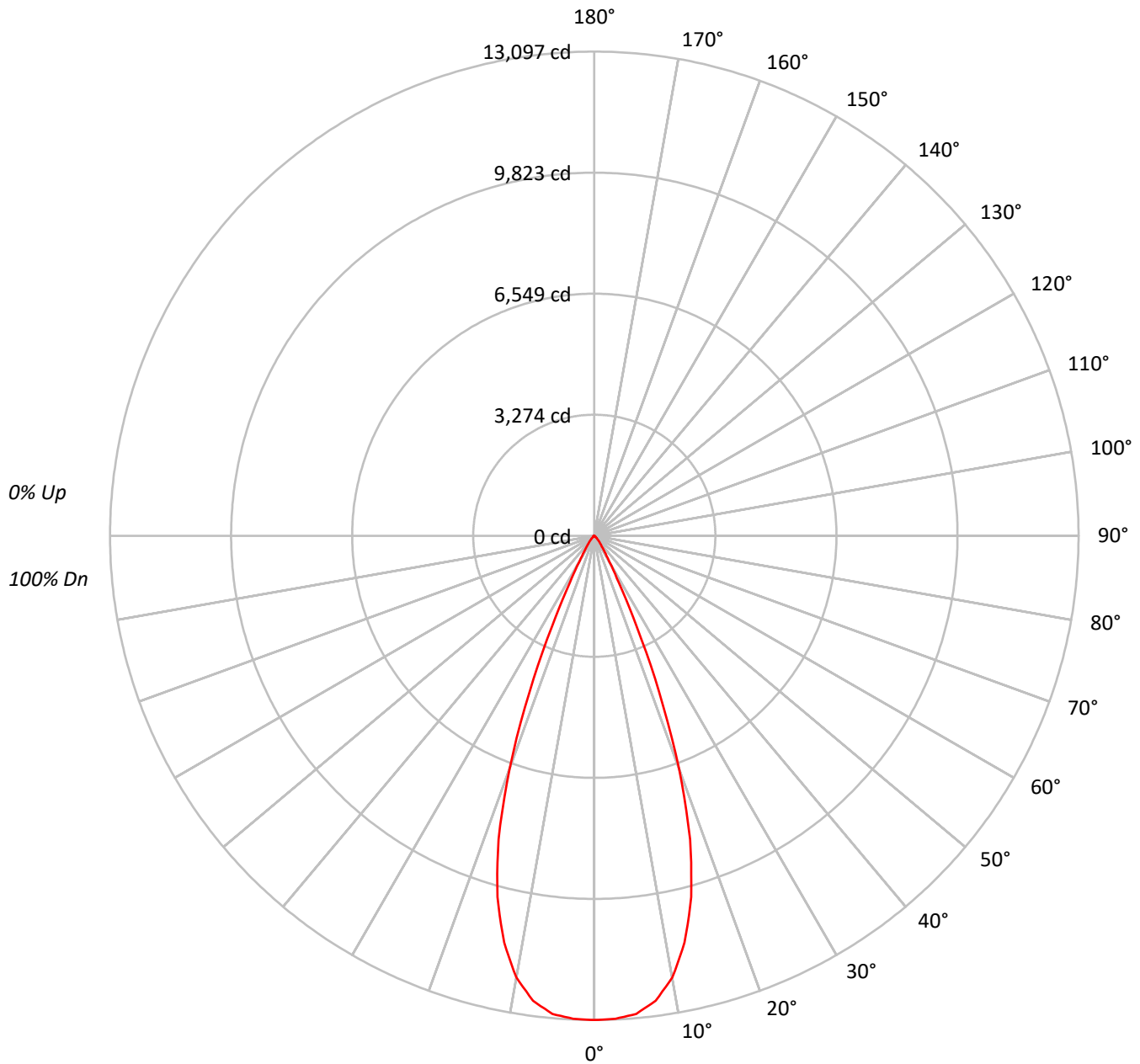


Downlight

TEST NUMBER: P781773

CATALOG NUMBER: LER4D50D010-EC4DR4040509040-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P781773

CATALOG NUMBER: LER4D50D010-EC4DR4040509040-4LBS1H

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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	115	112	110	108	112	110	108	107		106	105	103			103	101	100			96
2	110	106	103	100	108	105	102	99		102	99	97			99	97	95			92
3	106	101	97	94	104	100	96	93		97	94	92			95	93	90			88
4	102	97	92	89	101	95	91	88		93	90	87			92	89	86			84
5	99	92	88	84	97	91	87	84		90	86	83			88	85	83			81
6	95	88	84	80	94	88	83	80		86	82	80			85	82	79			77
7	92	85	80	77	91	84	80	77		83	79	76			82	79	76			74
8	89	82	77	74	88	81	77	74		80	76	73			79	76	73			72
9	86	79	74	71	85	78	74	71		77	73	71			76	73	70			69
10	83	76	71	68	82	75	71	68		75	71	68			74	70	68			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1430999
5°	1424050
10°	1346034
15°	1144295
20°	779924
25°	325417
30°	102319
35°	47551
40°	26301
45°	12052
50°	5847
55°	3200
60°	1683
65°	595
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12052 cd/sqm



TEST NUMBER: P781773

CATALOG NUMBER: LER4D50D010-EC4DR4040509040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.4	21.6
10°-20°	2716.0	48.3
20°-30°	1359.5	24.2
30°-40°	249.2	4.4
40°-50°	68.7	1.2
50°-60°	16.2	0.3
60°-70°	3.1	0.1
70°-80°	0.1	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°	5287.9	94.0
0°-40°	5537.1	98.4
0°-60°	5622.0	99.9
0°-90°	5625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5625.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13097	
5°	12984	###
15°	10116	2716
25°	2699	1360
35°	356	249
45°	78	69
55°	17	16
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781773

CATALOG NUMBER: LER4D50D010-EC4DR4040509040-4LBS1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	13097.1
2.5°	13078.0
5°	12983.9
7.5°	12683.9
10°	12132.3
12.5°	11272.3
15°	10116.2
17.5°	8612.8
20°	6707.7
22.5°	4573.0
25°	2699.3
27.5°	1426.9
30°	811.0
32.5°	524.1
35°	356.5
37.5°	254.8
40°	184.4
42.5°	126.2
45°	78.0
47.5°	49.7
50°	34.4
52.5°	24.5
55°	16.8
57.5°	10.7
60°	7.7
62.5°	4.6
65°	2.3
67.5°	1.5
70°	0.8
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)