

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: P785101

Luminaire Tested: LER4DD50D010-EC4DR2540509030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR2540509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4324.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

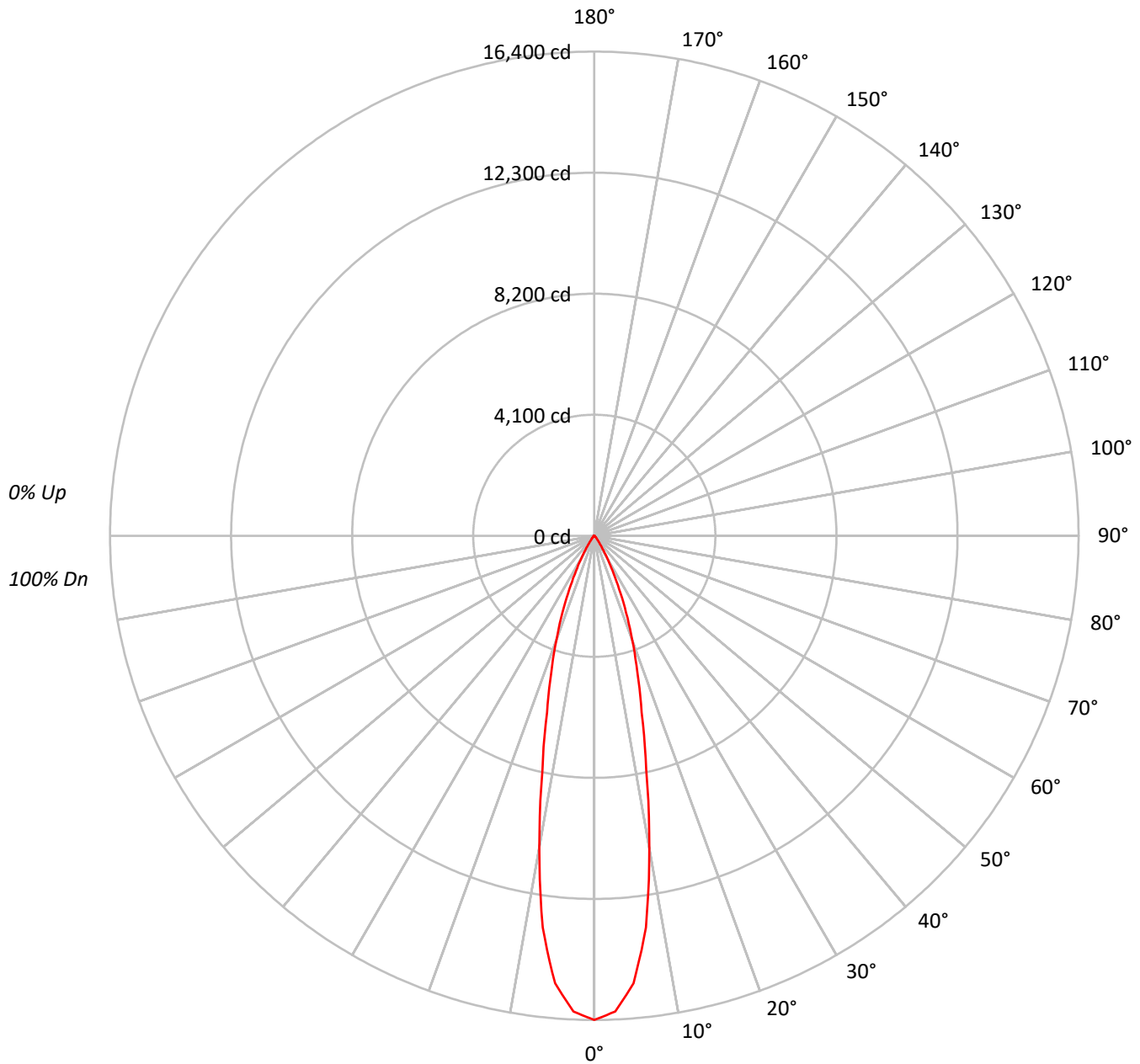


Downlight

TEST NUMBER: P785101

CATALOG NUMBER: LER4DD50D010-EC4DR2540509030-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P785101

CATALOG NUMBER: LER4DD50D010-EC4DR2540509030-4LBDP1H

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	97	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	93	89	86	98	93	89	86		91	87	85		89	86	84		88	85	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	93	87	82	79	92	86	82	79		85	81	78		84	80	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1791920
5°	1668950
10°	1190509
15°	701166
20°	436279
25°	239424
30°	109497
35°	41469
40°	18784
45°	11295
50°	4691
55°	3029
60°	2120
65°	1422
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11295 cd/sqm



TEST NUMBER: P785101

CATALOG NUMBER: LER4DD50D010-EC4DR2540509030-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1307.8	30.2
10°-20°	1771.3	41.0
20°-30°	937.3	21.7
30°-40°	231.4	5.4
40°-50°	56.5	1.3
50°-60°	14.9	0.3
60°-70°	5.0	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°	4016.4	92.9
0°-40°	4247.7	98.2
0°-60°	4319.1	99.9
0°-90°	4324.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4324.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16400	
5°	15217	###
15°	6199	1771
25°	1986	937
35°	311	231
45°	73	56
55°	16	15
65°	6	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785101

CATALOG NUMBER: LER4DD50D010-EC4DR2540509030-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	16400.4
2.5°	16130.9
5°	15216.8
7.5°	13380.4
10°	10730.5
12.5°	8111.6
15°	6198.7
17.5°	4831.0
20°	3752.2
22.5°	2813.9
25°	1986.0
27.5°	1331.8
30°	867.9
32.5°	528.0
35°	310.9
37.5°	190.3
40°	131.7
42.5°	100.6
45°	73.1
47.5°	44.1
50°	27.6
52.5°	20.0
55°	15.9
57.5°	12.4
60°	9.7
62.5°	7.6
65°	5.5
67.5°	2.1
70°	0.7
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)