

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: P785234

Luminaire Tested: LER4DD50D010-EC4DR5040509050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR5040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5615.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

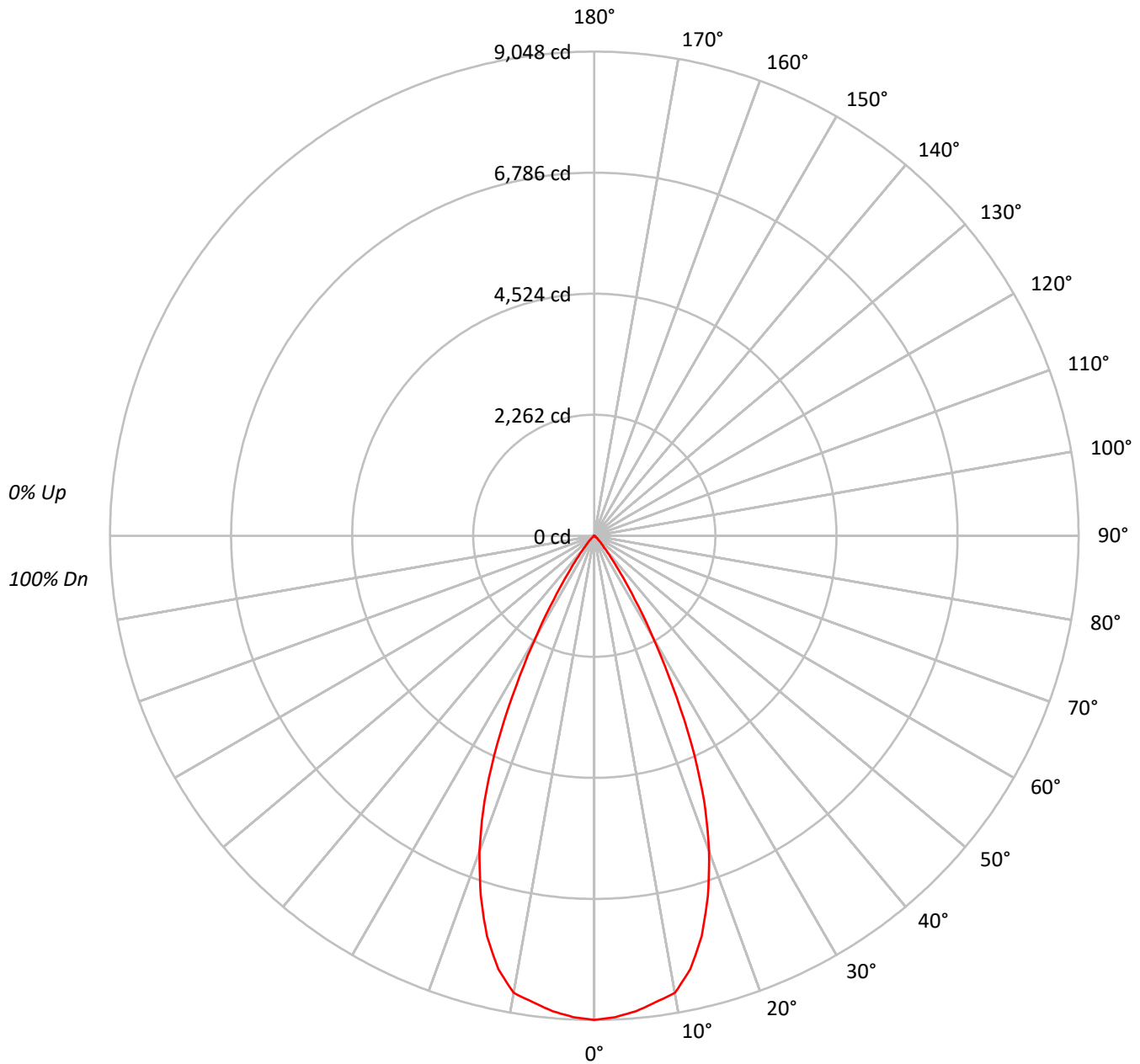


Downlight

TEST NUMBER: P785234

CATALOG NUMBER: LER4DD50D010-EC4DR5040509050-4LBDP1LI

Luminous Intensity Polar Plot



TEST NUMBER: P785234

CATALOG NUMBER: LER4DD50D010-EC4DR5040509050-4LBDP1LI

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	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95		
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85		
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80		
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76		
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72		
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69		
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65		
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62		
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	988624
5°	978263
10°	962148
15°	876110
20°	729019
25°	517498
30°	273913
35°	111628
40°	41448
45°	18975
50°	7785
55°	4076
60°	2010
65°	595
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18975 cd/sqm



TEST NUMBER: P785234

CATALOG NUMBER: LER4DD50D010-EC4DR5040509050-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.1	15.0
10°-20°	2130.6	37.9
20°-30°	1913.8	34.1
30°-40°	599.2	10.7
40°-50°	104.9	1.9
50°-60°	20.9	0.4
60°-70°	3.2	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°	4887.5	87.0
0°-40°	5486.7	97.7
0°-60°	5612.6	99.9
0°-90°	5615.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5615.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9048	
5°	8919	843
15°	7745	2131
25°	4293	1914
35°	837	599
45°	123	105
55°	21	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P785234

CATALOG NUMBER: LER4DD50D010-EC4DR5040509050-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	9048.3
2.5°	9003.3
5°	8919.4
7.5°	8791.2
10°	8672.2
12.5°	8290.8
15°	7745.3
17.5°	7052.6
20°	6269.9
22.5°	5364.4
25°	4292.6
27.5°	3156.0
30°	2171.1
32.5°	1413.6
35°	836.9
37.5°	480.6
40°	290.6
42.5°	189.2
45°	122.8
47.5°	74.8
50°	45.8
52.5°	31.3
55°	21.4
57.5°	14.5
60°	9.2
62.5°	5.3
65°	2.3
67.5°	0.8
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)