

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: P785326

Luminaire Tested: LER4DD50D010-EC4DR7040509040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR7040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5425.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

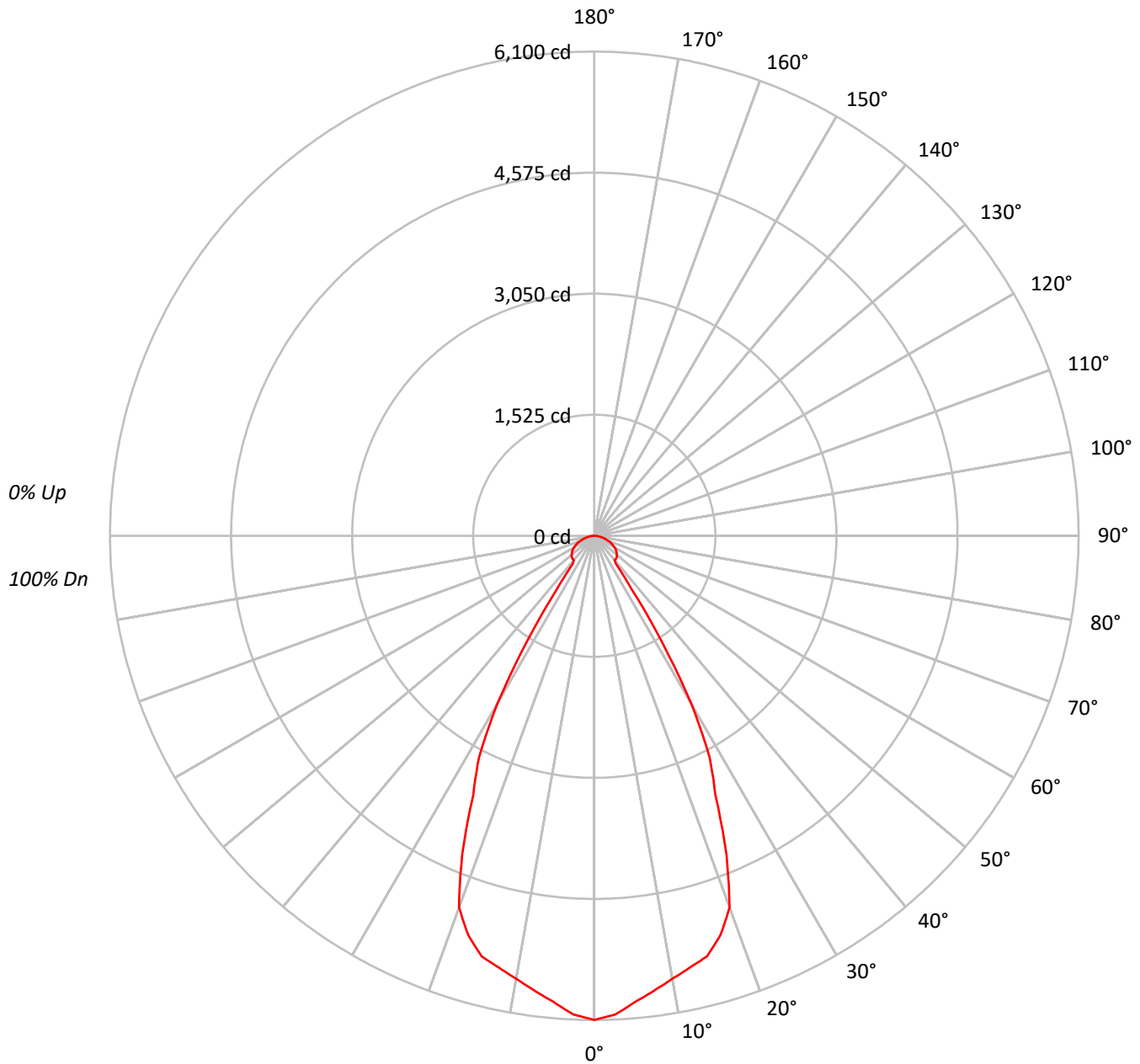


Downlight

TEST NUMBER: P785326

CATALOG NUMBER: LER4DD50D010-EC4DR7040509040-4LBDP1LI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91						
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83						
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76						
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70						
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65						
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61						
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57						
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53						
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50						
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	666491
5°	646684
10°	628655
15°	620413
20°	579341
25°	435231
30°	307662
35°	108987
40°	57309
45°	61035
50°	63198
55°	64386
60°	64792
65°	63418
70°	59866
75°	55428
80°	49204
85°	39991

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 64808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	10.3
10°-20°	1525.5	28.1
20°-30°	1680.1	31.0
30°-40°	641.9	11.8
40°-50°	303.1	5.6
50°-60°	301.3	5.6
60°-70°	241.2	4.4
70°-80°	138.6	2.6
80°-90°	37.7	0.7
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°	3761.7	69.3
0°-40°	4403.6	81.2
0°-60°	5008.0	92.3
0°-90°	5425.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5425.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6100	
5°	5896	556
15°	5485	1525
25°	3610	1680
35°	817	642
45°	395	303
55°	338	301
65°	245	241
75°	131	139
85°	32	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6100.0
2.5°	6036.2
5°	5896.2
7.5°	5779.3
10°	5666.3
12.5°	5570.7
15°	5484.8
17.5°	5277.1
20°	4982.6
22.5°	4347.1
25°	3610.2
27.5°	3142.7
30°	2438.6
32.5°	1575.2
35°	817.1
37.5°	441.4
40°	401.8
42.5°	398.9
45°	395.0
47.5°	386.3
50°	371.8
52.5°	355.4
55°	338.0
57.5°	318.7
60°	296.5
62.5°	271.4
65°	245.3
67.5°	216.3
70°	187.4
72.5°	158.4
75°	131.3
77.5°	103.3
80°	78.2
82.5°	55.1
85°	31.9
87.5°	12.6
90°	0.0



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— 0°-180°







(END OF REPORT)