

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: P785321

Luminaire Tested: LER4DD50D010-EC4DR7040509035-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785321
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-EC4DR7040509035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4936.5 lumens
Efficiency: N/A
Efficacy: 105.0 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

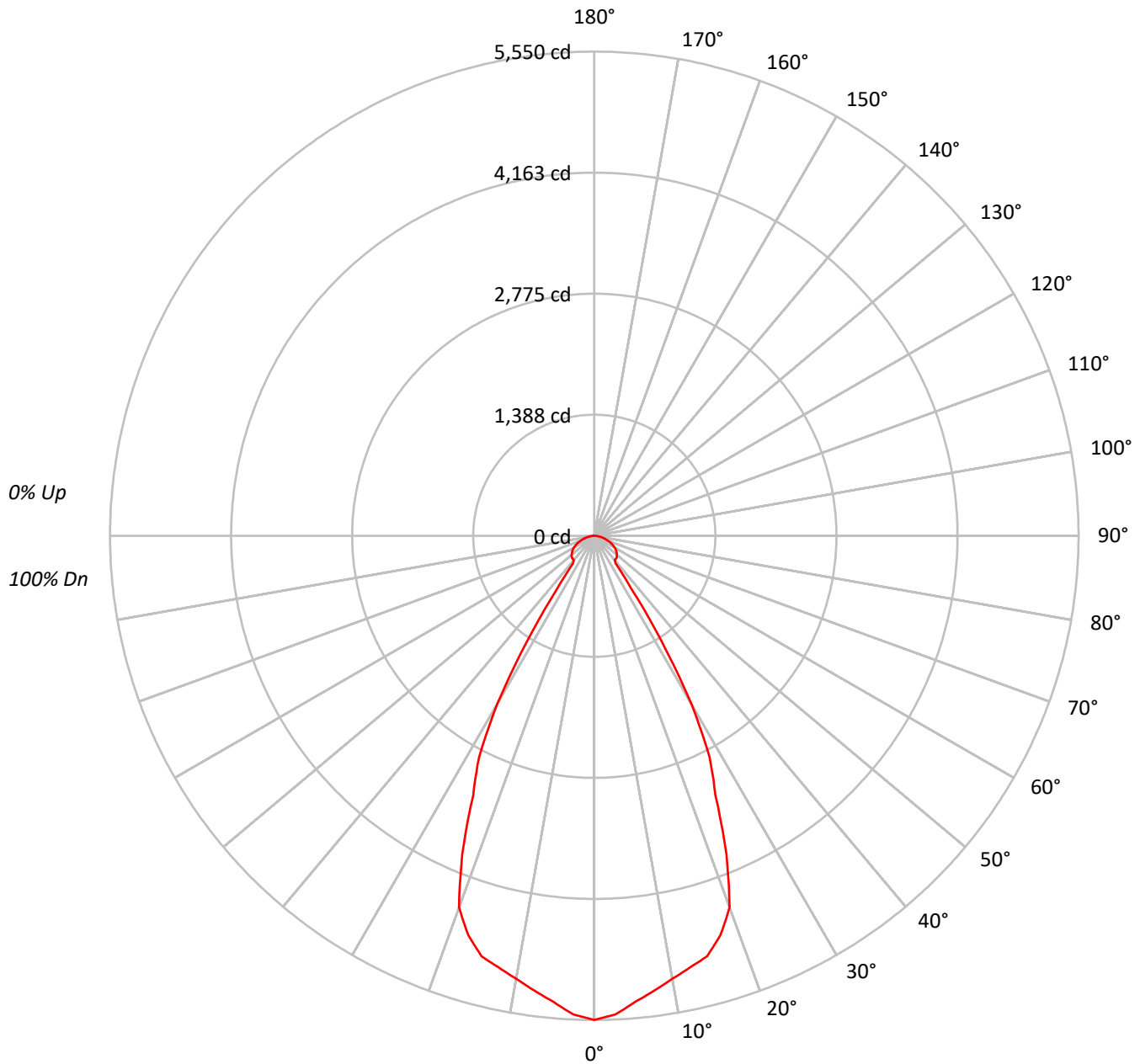


Downlight

TEST NUMBER: P785321

CATALOG NUMBER: LER4DD50D010-EC4DR7040509035-4LBDP1H

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	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°	606397
5°	588379
10°	571984
15°	564478
20°	527100
25°	395990
30°	279931
35°	99157
40°	52131
45°	55534
50°	57504
55°	58595
60°	58957
65°	57705
70°	54467
75°	50447
80°	44800
85°	36355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 58972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.0	10.3
10°-20°	1387.9	28.1
20°-30°	1528.6	31.0
30°-40°	584.0	11.8
40°-50°	275.8	5.6
50°-60°	274.2	5.6
60°-70°	219.5	4.4
70°-80°	126.2	2.6
80°-90°	34.3	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°	3422.6	69.3
0°-40°	4006.6	81.2
0°-60°	4556.5	92.3
0°-90°	4936.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4936.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5550	
5°	5365	506
15°	4990	1388
25°	3285	1529
35°	743	584
45°	359	276
55°	308	274
65°	223	219
75°	120	126
85°	29	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5550.0
2.5°	5492.0
5°	5364.6
7.5°	5258.3
10°	5155.5
12.5°	5068.5
15°	4990.3
17.5°	4801.4
20°	4533.3
22.5°	3955.1
25°	3284.7
27.5°	2859.4
30°	2218.8
32.5°	1433.2
35°	743.4
37.5°	401.6
40°	365.5
42.5°	362.9
45°	359.4
47.5°	351.5
50°	338.3
52.5°	323.4
55°	307.6
57.5°	290.0
60°	269.8
62.5°	246.9
65°	223.2
67.5°	196.8
70°	170.5
72.5°	144.1
75°	119.5
77.5°	94.0
80°	71.2
82.5°	50.1
85°	29.0
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)