

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: P781810

Luminaire Tested: LER4D50D010-EC4DR5040509027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781810
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: LER4D50D010-EC4DR5040509027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5386.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

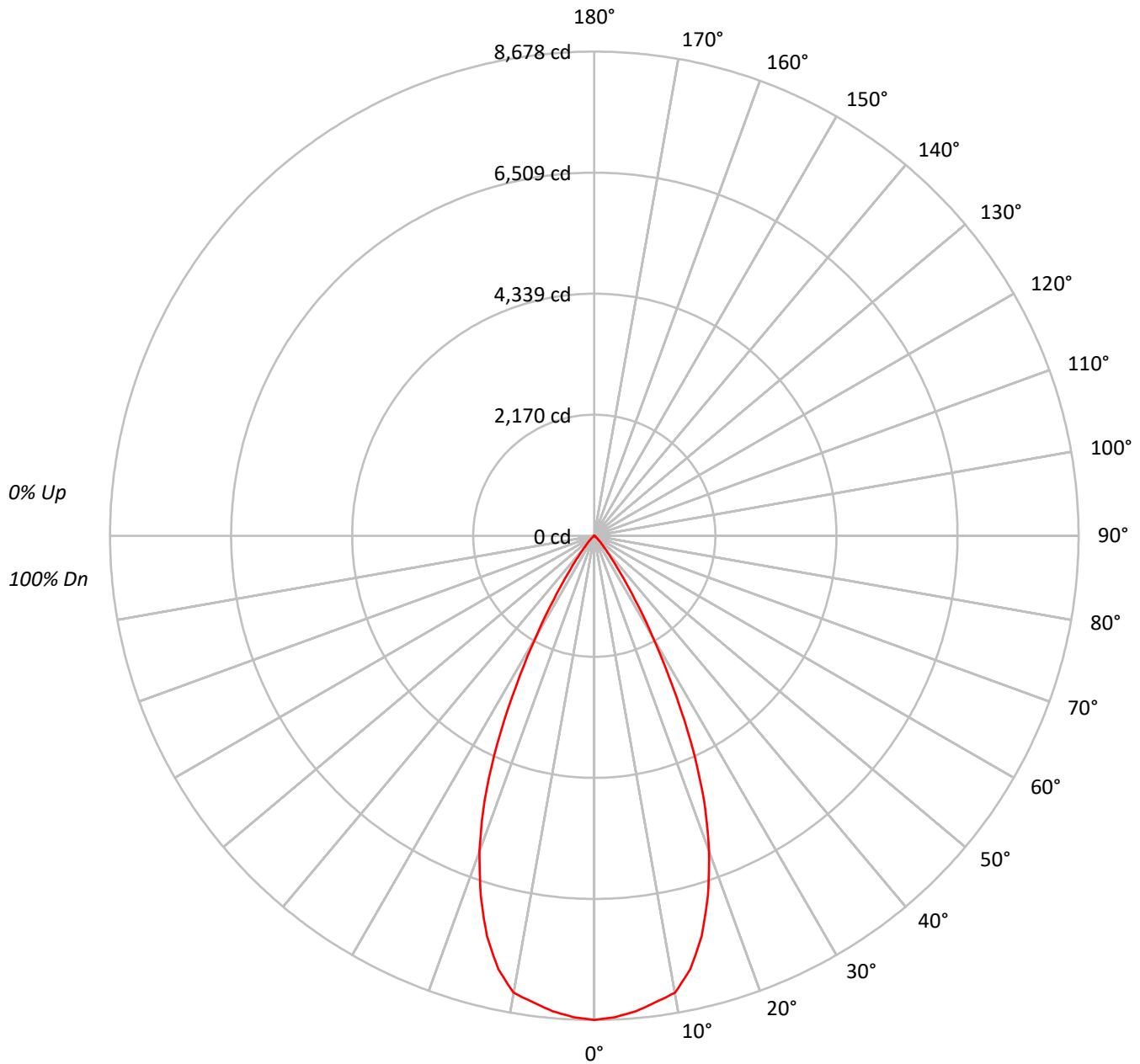


Downlight

TEST NUMBER: P781810

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781810

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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°	948187
5°	938241
10°	922785
15°	840275
20°	699207
25°	496329
30°	262710
35°	107053
40°	39765
45°	18202
50°	7462
55°	3905
60°	1923
65°	569
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18202 cd/sqm



TEST NUMBER: P781810

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.6	15.0
10°-20°	2043.4	37.9
20°-30°	1835.6	34.1
30°-40°	574.7	10.7
40°-50°	100.6	1.9
50°-60°	20.1	0.4
60°-70°	3.0	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°	4687.6	87.0
0°-40°	5262.3	97.7
0°-60°	5383.0	99.9
0°-90°	5386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5386.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8678	
5°	8554	809
15°	7428	2043
25°	4117	1836
35°	803	575
45°	118	101
55°	20	20
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781810

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	8678.2
2.5°	8635.0
5°	8554.5
7.5°	8431.6
10°	8317.4
12.5°	7951.6
15°	7428.5
17.5°	6764.1
20°	6013.5
22.5°	5145.0
25°	4117.0
27.5°	3026.9
30°	2082.3
32.5°	1355.8
35°	802.6
37.5°	460.9
40°	278.8
42.5°	181.5
45°	117.8
47.5°	71.7
50°	43.9
52.5°	30.0
55°	20.5
57.5°	13.9
60°	8.8
62.5°	5.1
65°	2.2
67.5°	0.7
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)