

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: P781808

Luminaire Tested: LER4D50D010-EC4DR5040509027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781808
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-EC4DR5040509027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4853.7 lumens
Efficiency: N/A
Efficacy: 103.3 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

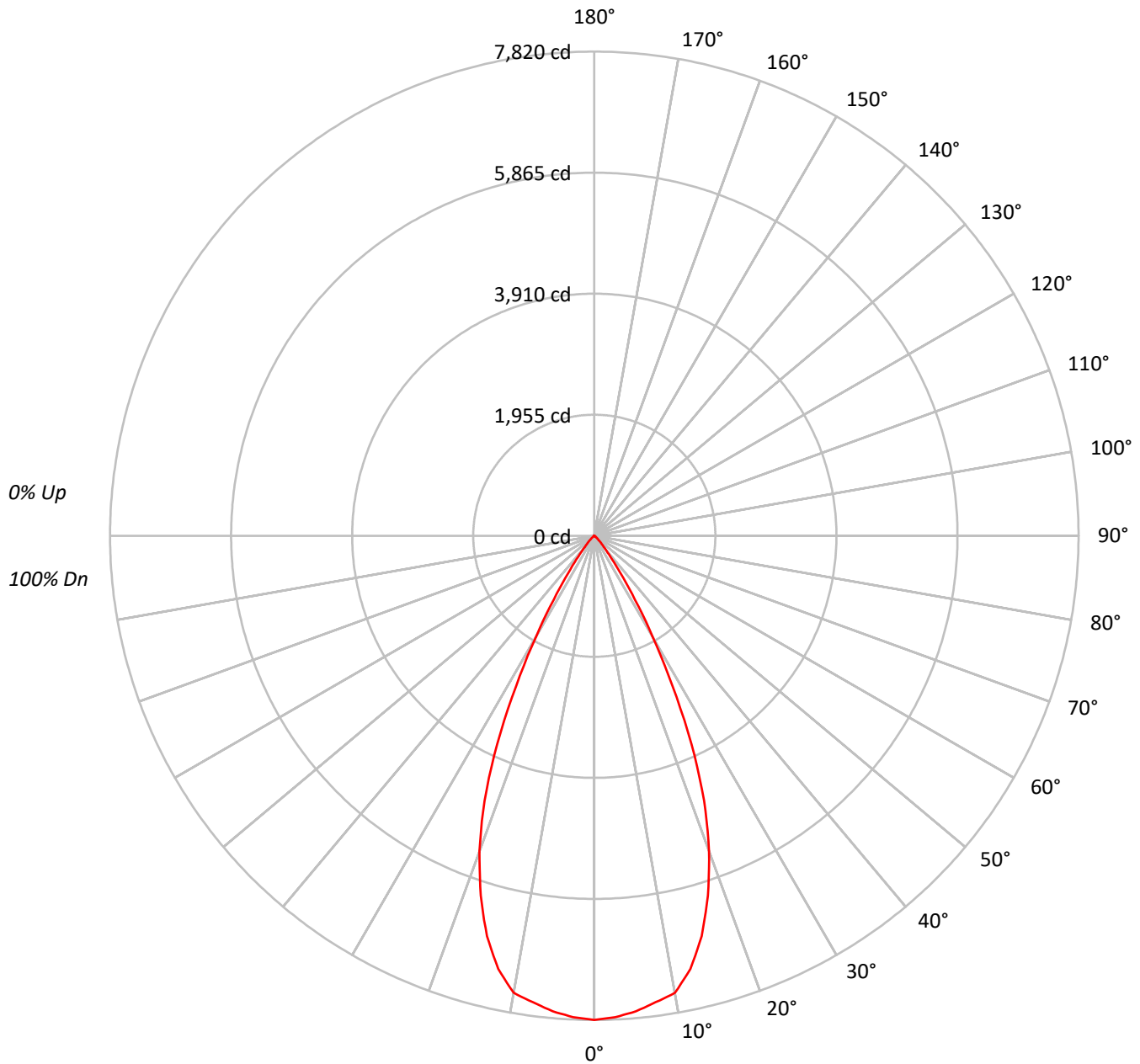


Downlight

TEST NUMBER: P781808

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P781808

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1B

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	102	102	100
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	86	86	85
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	77	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	74	74	72
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	70	70	69
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	66	66	65
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	63	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	60	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	854474
5°	845520
10°	831598
15°	757237
20°	630106
25°	447274
30°	236746
35°	96476
40°	35829
45°	16410
50°	6731
55°	3524
60°	1726
65°	517
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16410 cd/sqm



TEST NUMBER: P781808

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.7	15.0
10°-20°	1841.5	37.9
20°-30°	1654.1	34.1
30°-40°	517.9	10.7
40°-50°	90.7	1.9
50°-60°	18.1	0.4
60°-70°	2.7	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°	4224.3	87.0
0°-40°	4742.2	97.7
0°-60°	4851.0	99.9
0°-90°	4853.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4853.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7820	
5°	7709	729
15°	6694	1841
25°	3710	1654
35°	723	518
45°	106	91
55°	18	18
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781808

CATALOG NUMBER: LER4D50D010-EC4DR5040509027-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	7820.5
2.5°	7781.6
5°	7709.1
7.5°	7598.3
10°	7495.5
12.5°	7165.8
15°	6694.4
17.5°	6095.7
20°	5419.2
22.5°	4636.5
25°	3710.1
27.5°	2727.7
30°	1876.5
32.5°	1221.8
35°	723.3
37.5°	415.4
40°	251.2
42.5°	163.5
45°	106.2
47.5°	64.6
50°	39.6
52.5°	27.0
55°	18.5
57.5°	12.5
60°	7.9
62.5°	4.6
65°	2.0
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)