

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: P781790

Luminaire Tested: LER4D50D010-EC4DR4540509030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR4540509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5478.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
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

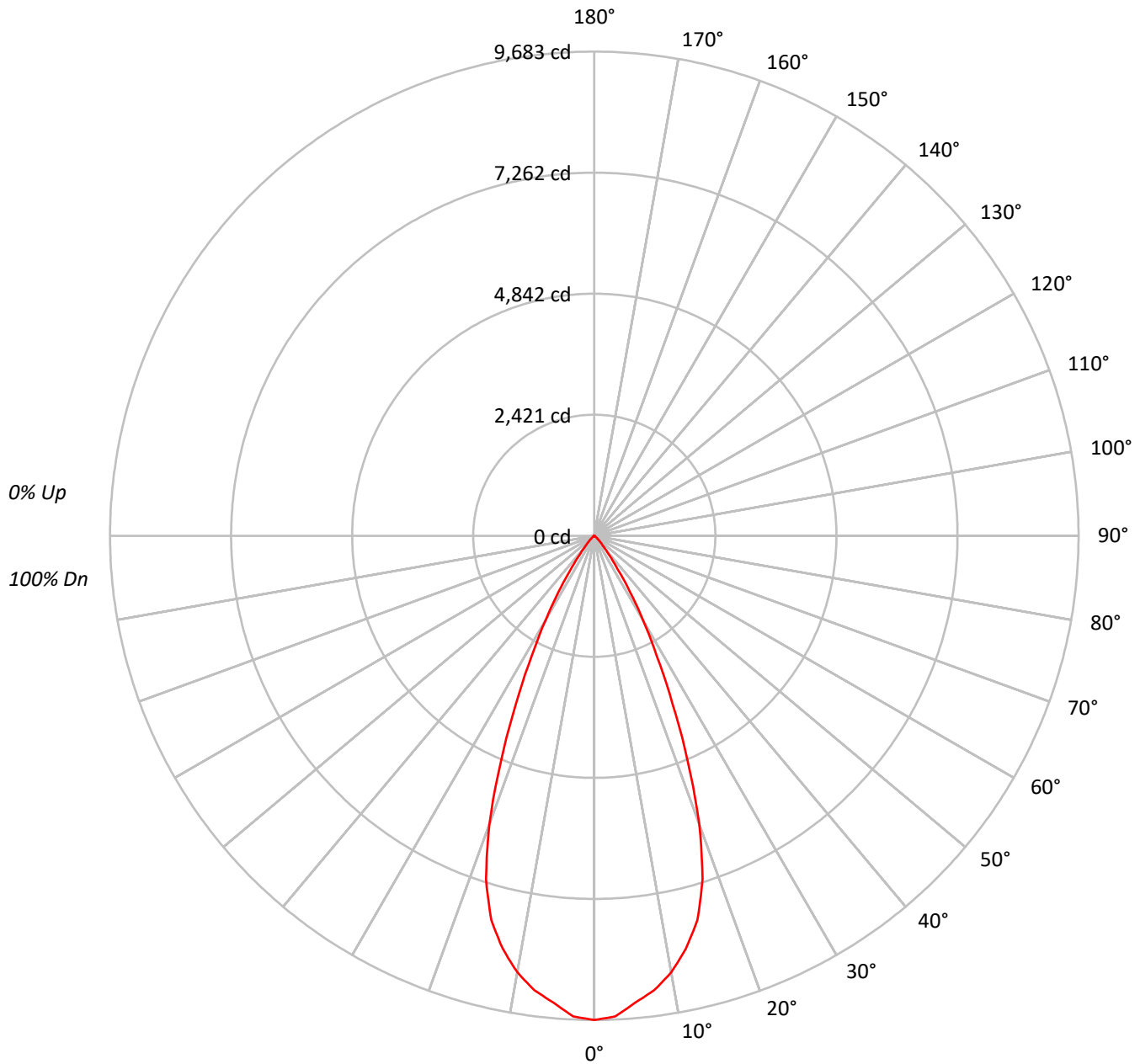


Downlight

TEST NUMBER: P781790

CATALOG NUMBER: LER4D50D010-EC4DR4540509030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781790

CATALOG NUMBER: LER4D50D010-EC4DR4540509030-4LBS1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1057994
5°	1027870
10°	983395
15°	900011
20°	714020
25°	445768
30°	245691
35°	110321
40°	43445
45°	20474
50°	9706
55°	5086
60°	2491
65°	595
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20474 cd/sqm



TEST NUMBER: P781790

CATALOG NUMBER: LER4D50D010-EC4DR4540509030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.6	16.1
10°-20°	2167.2	39.6
20°-30°	1716.2	31.3
30°-40°	571.5	10.4
40°-50°	113.4	2.1
50°-60°	25.8	0.5
60°-70°	3.7	0.1
70°-80°	0.1	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°	4763.9	87.0
0°-40°	5335.4	97.4
0°-60°	5474.5	99.9
0°-90°	5478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9683	
5°	9372	881
15°	7957	2167
25°	3698	1716
35°	827	571
45°	132	113
55°	27	26
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781790

CATALOG NUMBER: LER4D50D010-EC4DR4540509030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	9683.2
2.5°	9620.0
5°	9371.7
7.5°	9166.8
10°	8863.7
12.5°	8460.0
15°	7956.6
17.5°	7199.5
20°	6140.9
22.5°	4879.7
25°	3697.6
27.5°	2707.5
30°	1947.4
32.5°	1324.4
35°	827.1
37.5°	490.5
40°	304.6
42.5°	200.3
45°	132.5
47.5°	85.3
50°	57.1
52.5°	38.1
55°	26.7
57.5°	17.5
60°	11.4
62.5°	6.1
65°	2.3
67.5°	0.8
70°	0.8
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)