

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: P781914

Luminaire Tested: LER4D50D010-EC4DR7040509035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR7040509035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 5456.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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

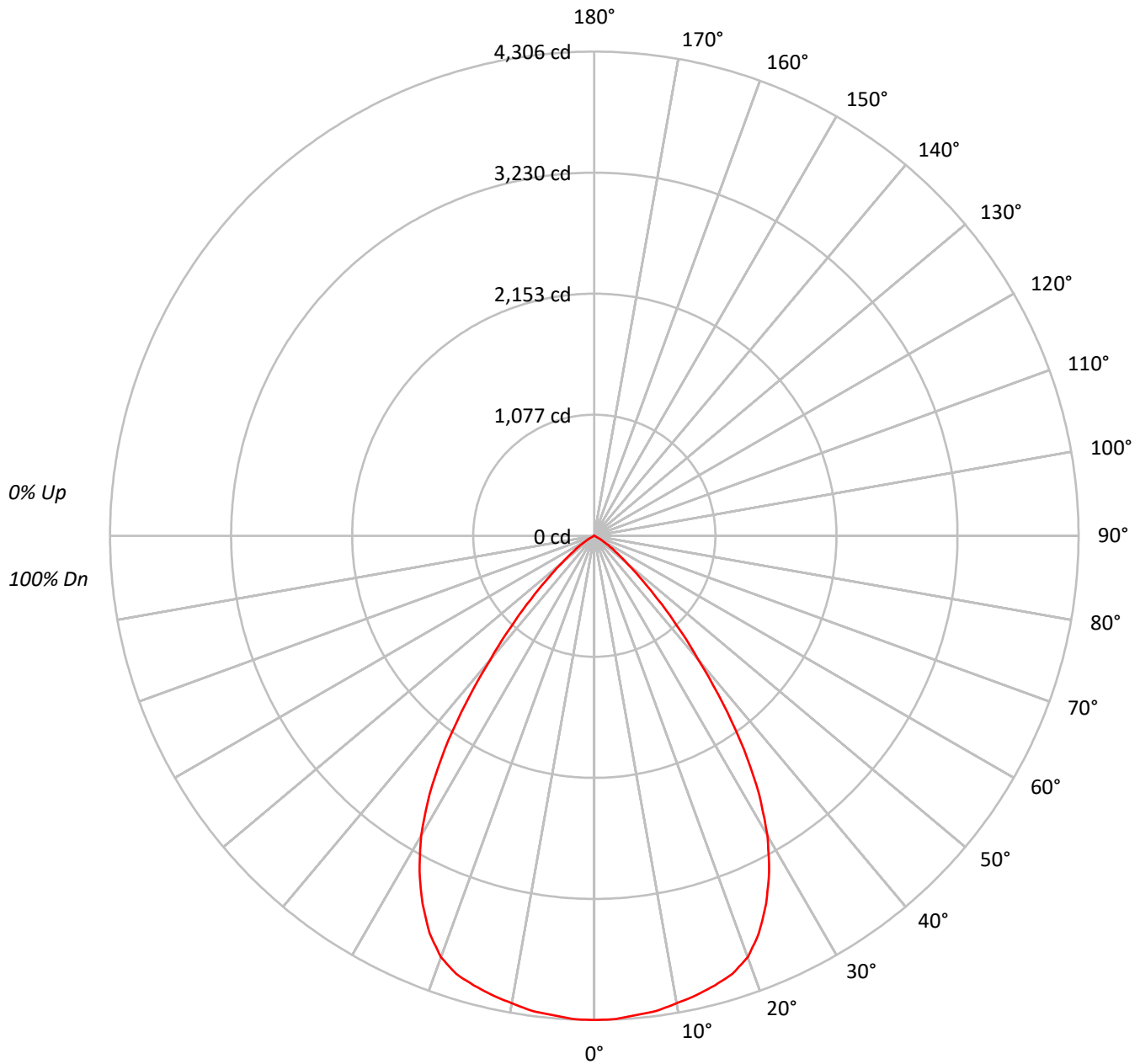


Downlight

TEST NUMBER: P781914

CATALOG NUMBER: LER4D50D010-EC4DR7040509035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781914

CATALOG NUMBER: LER4D50D010-EC4DR7040509035-4LBS1LI

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	100		
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78		
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71		
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65		
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60		
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56		
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51		
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48		
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	470521
5°	469346
10°	468338
15°	468206
20°	463626
25°	435520
30°	388268
35°	309568
40°	205558
45°	122888
50°	63708
55°	33488
60°	11844
65°	207
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 122888 cd/sqm



TEST NUMBER: P781914

CATALOG NUMBER: LER4D50D010-EC4DR7040509035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	7.5
10°-20°	1167.2	21.4
20°-30°	1646.5	30.2
30°-40°	1421.4	26.1
40°-50°	636.5	11.7
50°-60°	166.6	3.1
60°-70°	10.8	0.2
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°	3220.7	59.0
0°-40°	4642.1	85.1
0°-60°	5445.3	99.8
0°-90°	5456.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5456.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4306	
5°	4279	407
15°	4139	1167
25°	3613	1647
35°	2321	1421
45°	795	637
55°	176	167
65°	1	11
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781914

CATALOG NUMBER: LER4D50D010-EC4DR7040509035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	4306.4
2.5°	4301.8
5°	4279.3
7.5°	4260.7
10°	4221.3
12.5°	4185.6
15°	4139.2
17.5°	4085.7
20°	3987.4
22.5°	3825.5
25°	3612.6
27.5°	3365.5
30°	3077.5
32.5°	2725.1
35°	2320.9
37.5°	1874.8
40°	1441.2
42.5°	1095.0
45°	795.3
47.5°	548.3
50°	374.8
52.5°	258.6
55°	175.8
57.5°	106.1
60°	54.2
62.5°	17.0
65°	0.8
67.5°	0.0
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)