

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: P778660

Luminaire Tested: LER4D02D010-EC4DR400210IC9024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D02D010-EC4DR400210IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 313.8 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



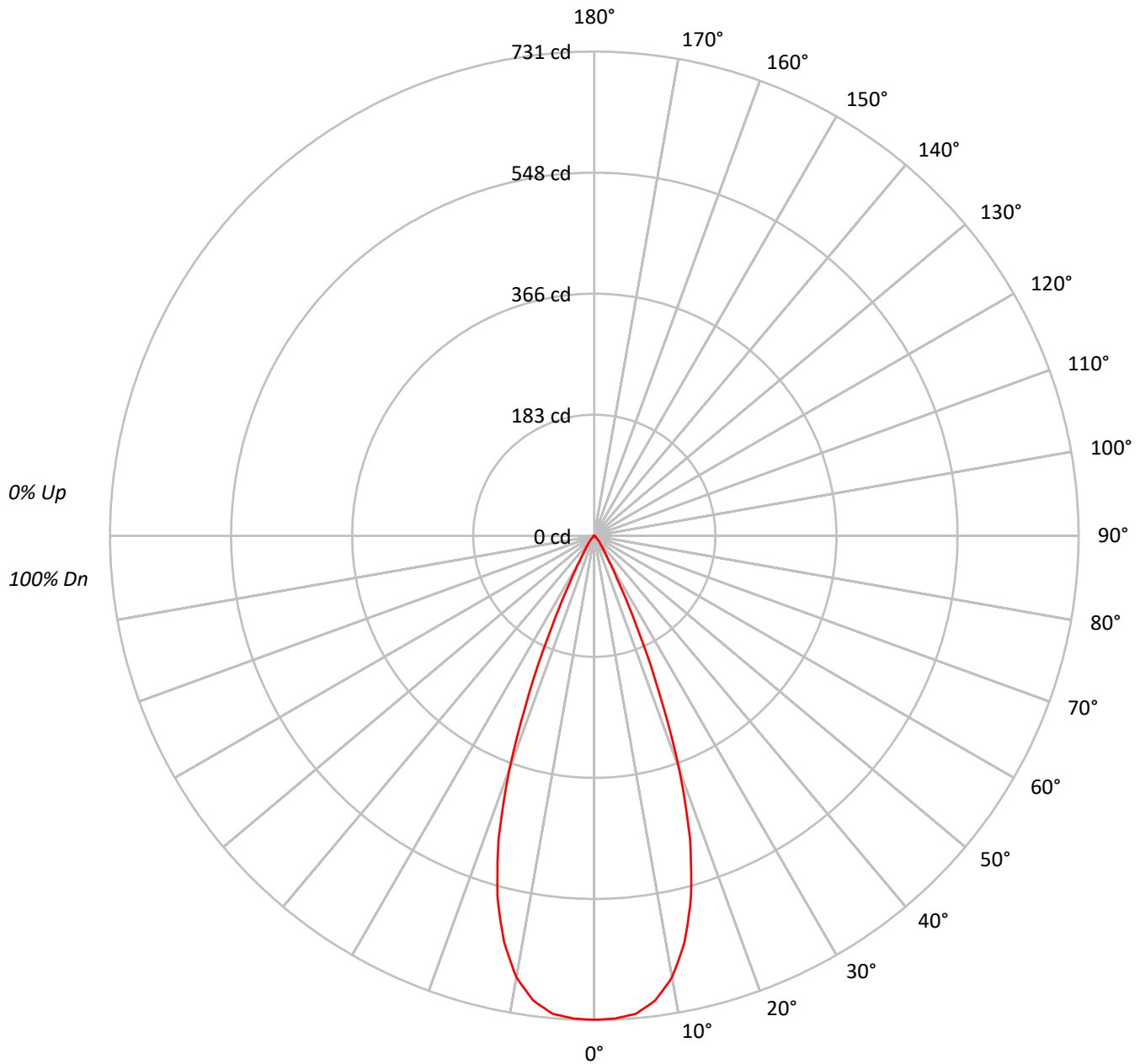
Downlight



TEST NUMBER: P778660

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9024-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P778660

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9024-4LBS1B

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	72	70	69			
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79826
5°	79440
10°	75077
15°	63831
20°	43498
25°	18156
30°	5715
35°	2654
40°	1469
45°	680
50°	323
55°	171
60°	87
65°	26
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 680 cd/sqm



TEST NUMBER: P778660

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	21.6
10°-20°	151.5	48.3
20°-30°	75.8	24.2
30°-40°	13.9	4.4
40°-50°	3.8	1.2
50°-60°	0.9	0.3
60°-70°	0.2	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°	295.0	94.0
0°-40°	308.9	98.4
0°-60°	313.6	99.9
0°-90°	313.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	313.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	731	
5°	724	68
15°	564	151
25°	151	76
35°	20	14
45°	4	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778660

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	730.6
2.5°	729.5
5°	724.3
7.5°	707.5
10°	676.7
12.5°	628.8
15°	564.3
17.5°	480.4
20°	374.1
22.5°	255.1
25°	150.6
27.5°	79.6
30°	45.3
32.5°	29.2
35°	19.9
37.5°	14.2
40°	10.3
42.5°	7.0
45°	4.4
47.5°	2.8
50°	1.9
52.5°	1.4
55°	0.9
57.5°	0.6
60°	0.4
62.5°	0.2
65°	0.1
67.5°	0.1
70°	0.1
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)