

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: P778668

Luminaire Tested: LER4D02D010-EC4DR400210IC9030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778668
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-EC4DR400210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

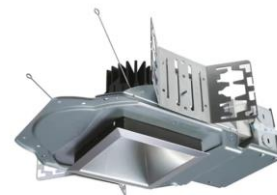
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 359.7 lumens
Efficiency: N/A
Efficacy: 70.5 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



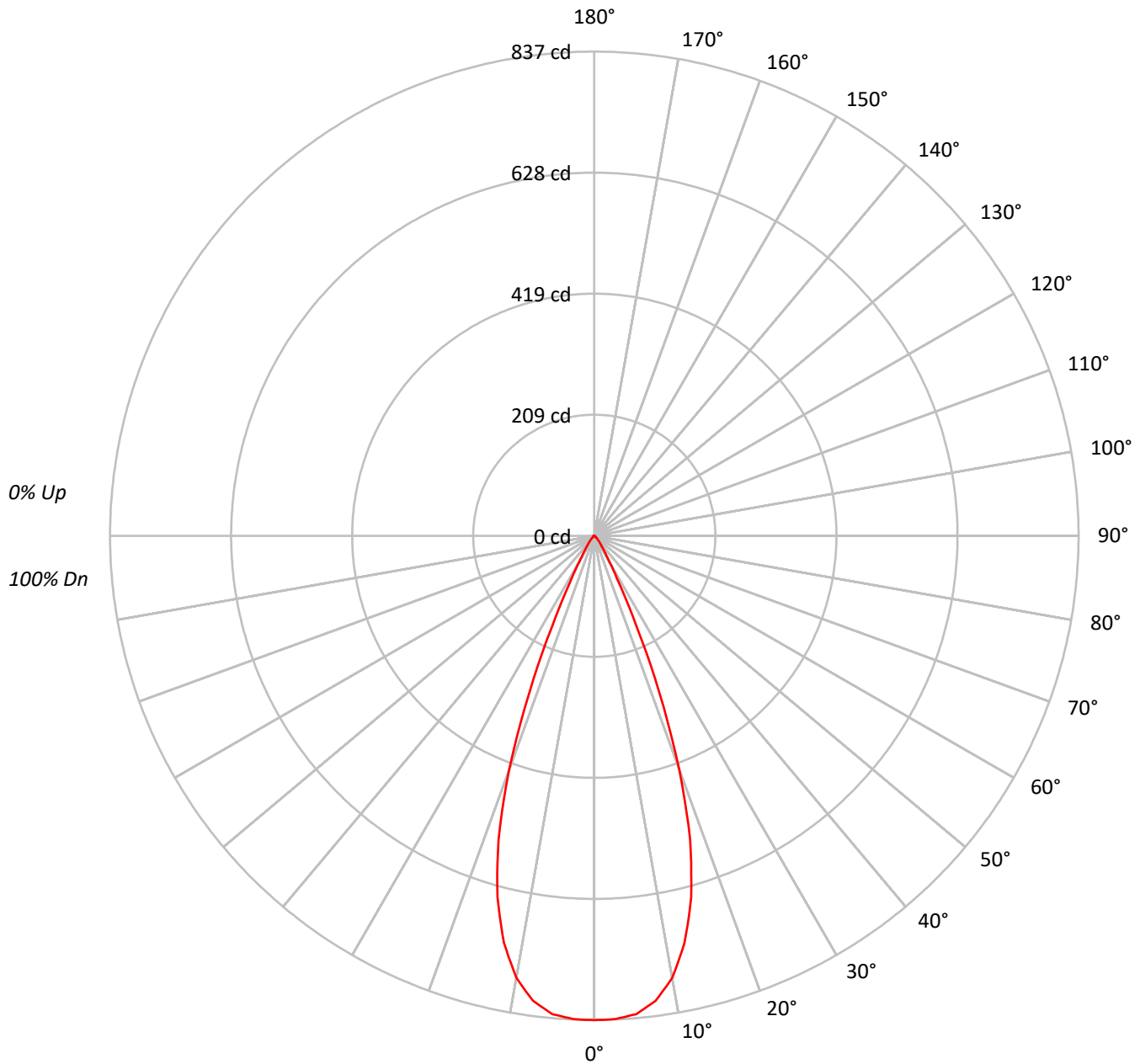
Downlight



TEST NUMBER: P778668

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P778668

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9030-4LBS1B

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	82	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78
9	86	79	74	71	85	78	74	71	77	73	71		76	73	70		76
10	83	76	71	68	82	75	71	68	75	71	68		74	70	68		73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91495
5°	91044
10°	86061
15°	73163
20°	49869
25°	20808
30°	6548
35°	3041
40°	1683
45°	773
50°	374
55°	210
60°	109
65°	52
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 773 cd/sqm



TEST NUMBER: P778668

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	21.5
10°-20°	173.7	48.3
20°-30°	86.9	24.2
30°-40°	15.9	4.4
40°-50°	4.4	1.2
50°-60°	1.0	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°	338.1	94.0
0°-40°	354.0	98.4
0°-60°	359.5	99.9
0°-90°	359.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	830	78
15°	647	174
25°	173	87
35°	23	16
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P778668

CATALOG NUMBER: LER4D02D010-EC4DR400210IC9030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	837.4
2.5°	836.2
5°	830.1
7.5°	811.0
10°	775.7
12.5°	720.7
15°	646.8
17.5°	550.7
20°	428.9
22.5°	292.4
25°	172.6
27.5°	91.2
30°	51.9
32.5°	33.5
35°	22.8
37.5°	16.3
40°	11.8
42.5°	8.1
45°	5.0
47.5°	3.2
50°	2.2
52.5°	1.5
55°	1.1
57.5°	0.7
60°	0.5
62.5°	0.3
65°	0.2
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)