

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: P779352

Luminaire Tested: LER4D08D010-EC4DR500210IC9050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779352
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: LER4D08D010-EC4DR500210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 828.1 lumens
Efficiency: N/A
Efficacy: 93.0 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): 8.9
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



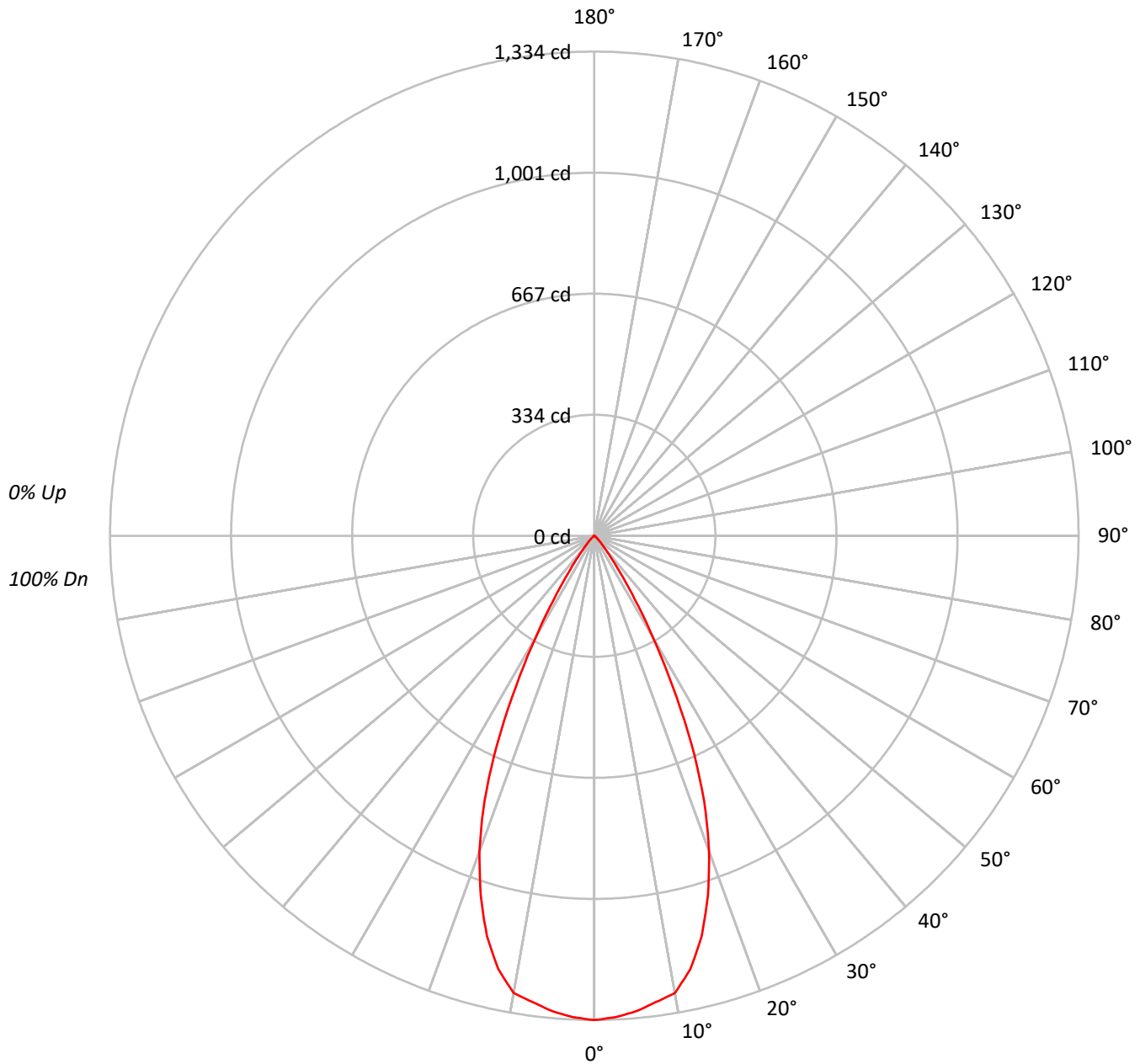
Downlight



TEST NUMBER: P779352

CATALOG NUMBER: LER4D08D010-EC4DR500210IC9050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P779352

CATALOG NUMBER: LER4D08D010-EC4DR500210IC9050-4LBS1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	145776
5°	144249
10°	141878
15°	129189
20°	107494
25°	76300
30°	40385
35°	16459
40°	6119
45°	2797
50°	1156
55°	610
60°	306
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2797 cd/sqm



TEST NUMBER: P779352

CATALOG NUMBER: LER4D08D010-EC4DR500210IC9050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	15.0
10°-20°	314.2	37.9
20°-30°	282.2	34.1
30°-40°	88.4	10.7
40°-50°	15.5	1.9
50°-60°	3.1	0.4
60°-70°	0.5	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°	720.7	87.0
0°-40°	809.0	97.7
0°-60°	827.6	99.9
0°-90°	828.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1334	
5°	1315	124
15°	1142	314
25°	633	282
35°	123	88
45°	18	15
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P779352

CATALOG NUMBER: LER4D08D010-EC4DR500210IC9050-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1334.2
2.5°	1327.6
5°	1315.2
7.5°	1296.3
10°	1278.8
12.5°	1222.5
15°	1142.1
17.5°	1040.0
20°	924.5
22.5°	791.0
25°	632.9
27.5°	465.4
30°	320.1
32.5°	208.4
35°	123.4
37.5°	70.9
40°	42.9
42.5°	27.9
45°	18.1
47.5°	11.0
50°	6.8
52.5°	4.6
55°	3.2
57.5°	2.1
60°	1.4
62.5°	0.8
65°	0.3
67.5°	0.1
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)