

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: P779444

Luminaire Tested: LER4D08D010-EC4DR700210IC9040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779444
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: LER4D08D010-EC4DR700210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.1 lumens
Efficiency: N/A
Efficacy: 90.1 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): 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



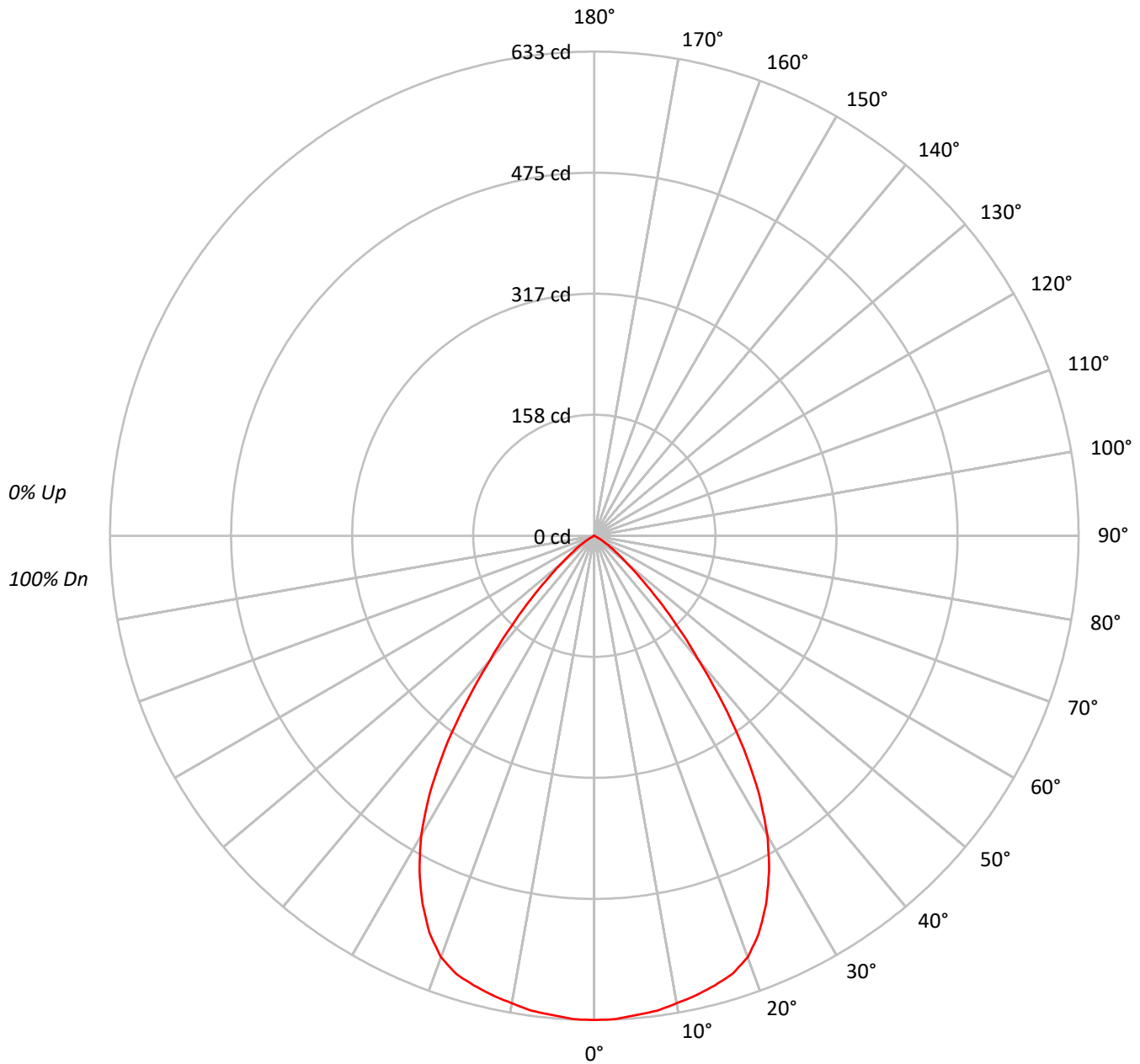
Downlight



TEST NUMBER: P779444

CATALOG NUMBER: LER4D08D010-EC4DR700210IC9040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P779444

CATALOG NUMBER: LER4D08D010-EC4DR700210IC9040-4LBS1B

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105	111	108	106	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94	105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84	99	92	87	83		90	85	82		87	84	81		85	82	79
4	95	87	81	76	93	86	80	76		83	78	75		81	77	74		79	76	73
5	89	80	74	69	88	79	73	69		78	72	68		76	71	68		74	70	67
6	84	75	68	63	83	74	68	63		72	67	63		71	66	62		69	65	62
7	80	69	63	58	78	69	62	58		67	62	58		66	61	57		65	61	57
8	75	65	58	54	74	64	58	54		63	57	53		62	57	53		61	56	53
9	71	61	54	50	70	60	54	50		59	53	50		58	53	49		57	53	49
10	67	57	50	46	66	56	50	46		55	50	46		55	50	46		54	49	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69173
5°	68999
10°	68853
15°	68831
20°	68159
25°	64027
30°	57076
35°	45510
40°	30223
45°	18063
50°	9366
55°	4915
60°	1748
65°	26
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18063 cd/sqm



TEST NUMBER: P779444

CATALOG NUMBER: LER4D08D010-EC4DR700210IC9040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	7.5
10°-20°	171.6	21.4
20°-30°	242.1	30.2
30°-40°	209.0	26.1
40°-50°	93.6	11.7
50°-60°	24.5	3.1
60°-70°	1.6	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°	473.5	59.0
0°-40°	682.4	85.1
0°-60°	800.5	99.8
0°-90°	802.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	633	
5°	629	60
15°	608	172
25°	531	242
35°	341	209
45°	117	94
55°	26	24
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P779444

CATALOG NUMBER: LER4D08D010-EC4DR700210IC9040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	633.1
2.5°	632.4
5°	629.1
7.5°	626.3
10°	620.6
12.5°	615.3
15°	608.5
17.5°	600.6
20°	586.2
22.5°	562.4
25°	531.1
27.5°	494.7
30°	452.4
32.5°	400.6
35°	341.2
37.5°	275.6
40°	211.9
42.5°	161.0
45°	116.9
47.5°	80.6
50°	55.1
52.5°	38.0
55°	25.8
57.5°	15.6
60°	8.0
62.5°	2.5
65°	0.1
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)