

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: P779414

Luminaire Tested: LER4D08D010-EC4DR650210IC9030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D08D010-EC4DR650210IC9030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 723.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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



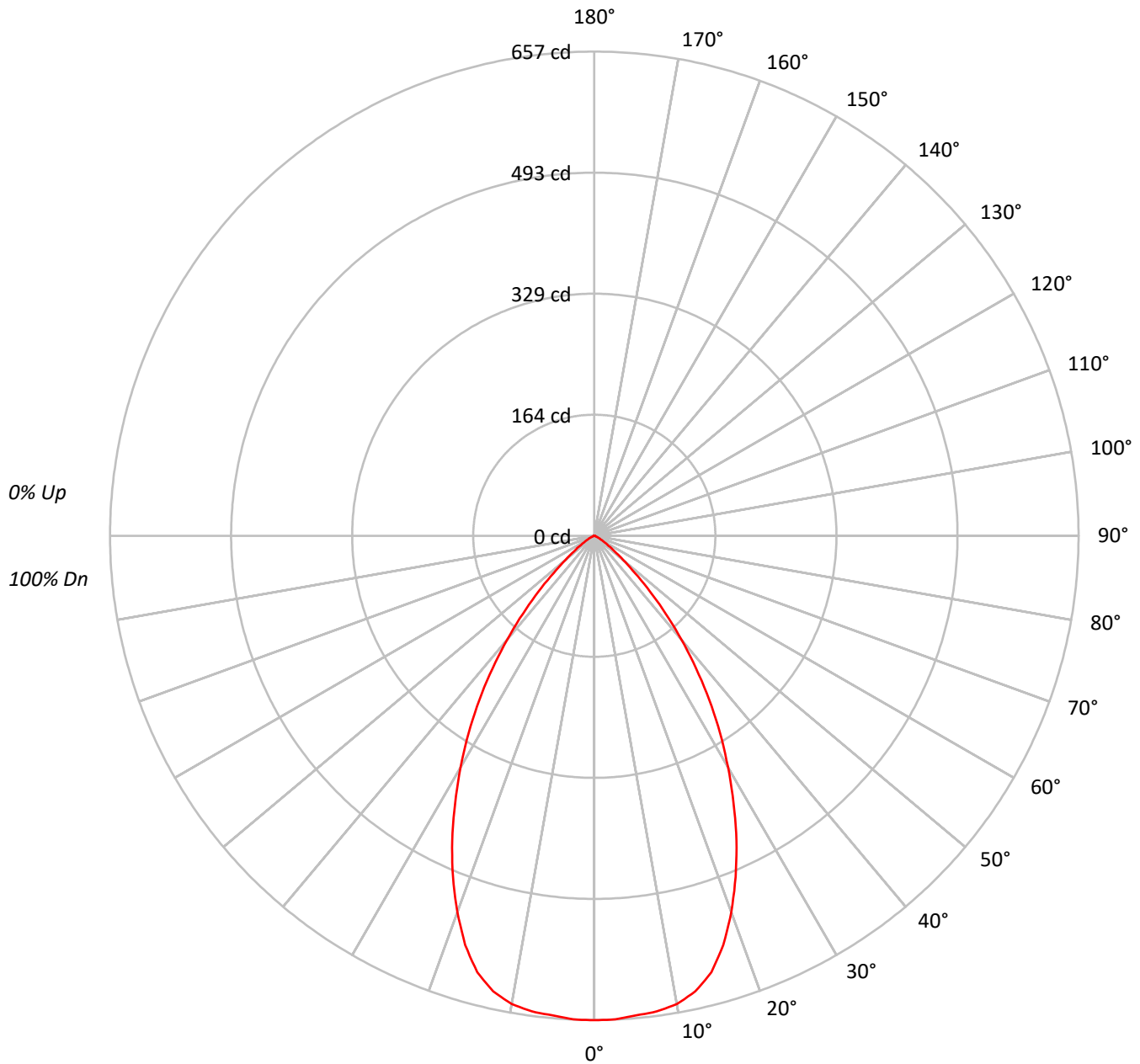
Downlight



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Luminous Intensity Polar Plot





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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	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	100	99	97	97	97	95	94	94	93	
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	97	95	94	94	93	93	91	88	87	85	82	80	78
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	82	80	78	76	74	72	70	68	66	64
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	76	74	72	70	68	66	64	62	60	58
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	70	68	66	64	62	60	58	56	54	52
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	64	62	60	58	56	54	52	50	48	46
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	60	58	56	54	52	50	48	46	44	42	40
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	54	52	50	48	46	44	42	40	38	36
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	50	48	46	44	42	40	38	36	34	32
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	48	46	44	42	40	38	36	34	32	30	28
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	44	42	40	38	36	34	32	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38389
5°	38295
10°	38263
15°	37083
20°	33761
25°	29418
30°	24467
35°	19386
40°	13990
45°	8838
50°	4607
55°	2454
60°	1285
65°	705
70°	290
75°	316
80°	235
85°	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	8.6
10°-20°	170.2	23.5
20°-30°	208.1	28.7
30°-40°	168.8	23.3
40°-50°	84.1	11.6
50°-60°	23.5	3.2
60°-70°	5.3	0.7
70°-80°	1.4	0.2
80°-90°	0.4	0.1
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°	440.5	60.8
0°-40°	609.3	84.2
0°-60°	716.9	99.0
0°-90°	723.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	723.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	657	
5°	653	62
15°	613	170
25°	456	208
35°	272	169
45°	107	84
55°	24	23
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	657.3
2.5°	656.9
5°	653.2
7.5°	651.0
10°	645.2
12.5°	633.2
15°	613.3
17.5°	582.2
20°	543.2
22.5°	501.0
25°	456.5
27.5°	408.9
30°	362.8
32.5°	317.3
35°	271.9
37.5°	226.6
40°	183.5
42.5°	143.2
45°	107.0
47.5°	74.6
50°	50.7
52.5°	34.9
55°	24.1
57.5°	16.2
60°	11.0
62.5°	7.6
65°	5.1
67.5°	2.6
70°	1.7
72.5°	1.7
75°	1.4
77.5°	1.0
80°	0.7
82.5°	0.5
85°	0.3
87.5°	0.2
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)