

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: P779725

Luminaire Tested: LER4D10D010-EC4DR650210IC9030-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779725
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: LER4D10D010-EC4DR650210IC9030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 921.7 lumens
Efficiency: N/A
Efficacy: 78.8 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): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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



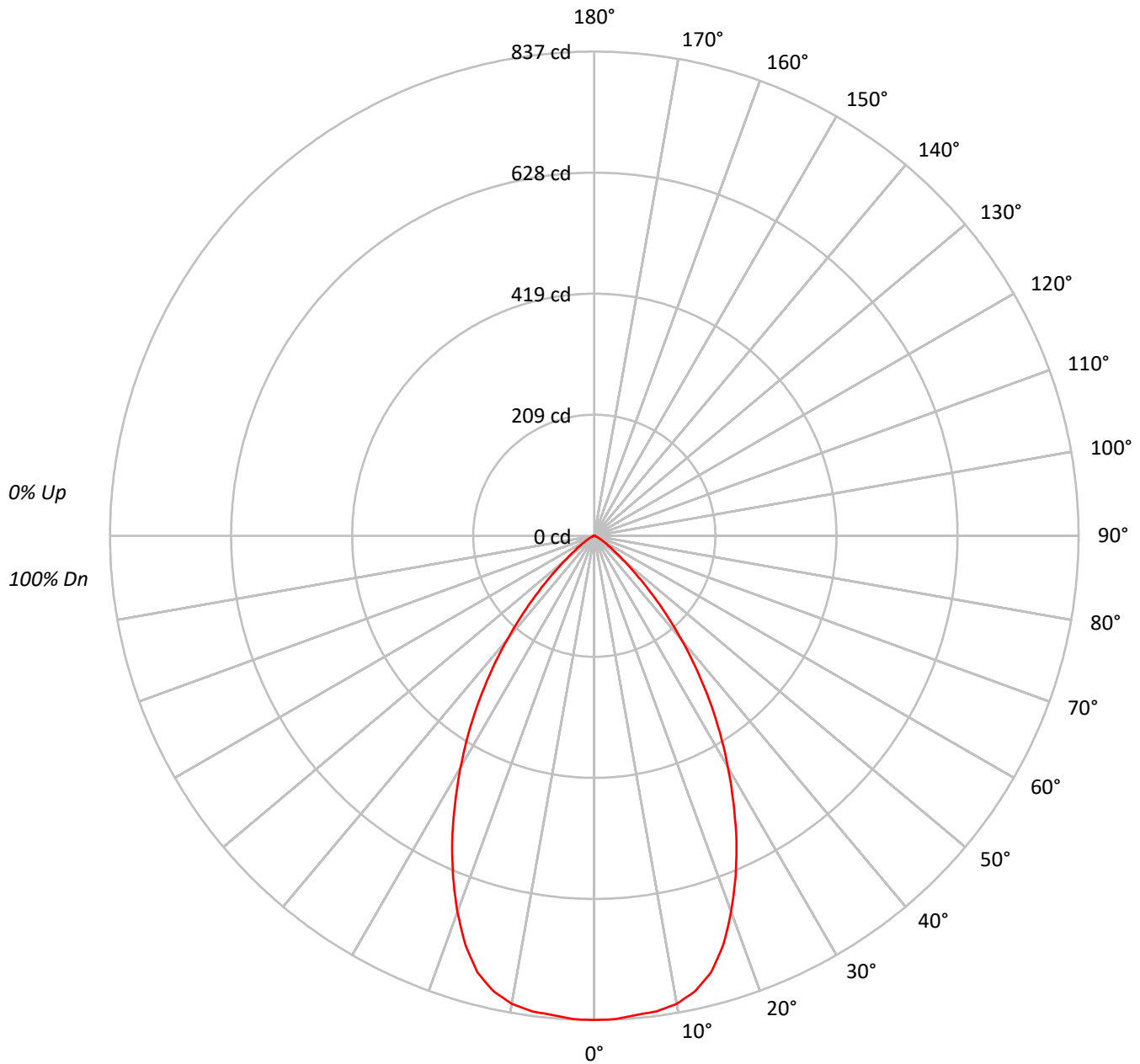
Downlight



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	97	95	94	93	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	89	91	89	87	85	85	85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48884
5°	48754
10°	48713
15°	47216
20°	42984
25°	37460
30°	31157
35°	24683
40°	17817
45°	11250
50°	5870
55°	3126
60°	1635
65°	898
70°	376
75°	406
80°	303
85°	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11250 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	8.6
10°-20°	216.7	23.5
20°-30°	264.9	28.7
30°-40°	214.9	23.3
40°-50°	107.1	11.6
50°-60°	29.9	3.2
60°-70°	6.8	0.7
70°-80°	1.8	0.2
80°-90°	0.4	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°	560.8	60.8
0°-40°	775.8	84.2
0°-60°	912.8	99.0
0°-90°	921.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	921.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	832	79
15°	781	217
25°	581	265
35°	346	215
45°	136	107
55°	31	30
65°	6	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	837.0
2.5°	836.3
5°	831.6
7.5°	828.9
10°	821.4
12.5°	806.2
15°	780.9
17.5°	741.3
20°	691.6
22.5°	637.9
25°	581.3
27.5°	520.6
30°	462.0
32.5°	404.0
35°	346.2
37.5°	288.5
40°	233.7
42.5°	182.3
45°	136.2
47.5°	94.9
50°	64.6
52.5°	44.5
55°	30.7
57.5°	20.7
60°	14.0
62.5°	9.7
65°	6.5
67.5°	3.3
70°	2.2
72.5°	2.1
75°	1.8
77.5°	1.2
80°	0.9
82.5°	0.6
85°	0.3
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)