

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: P779745

Luminaire Tested: LER4D10D010-EC4DR700210IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779745
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: LER4D10D010-EC4DR700210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1028.4 lumens
Efficiency: N/A
Efficacy: 87.9 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): 11.7
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



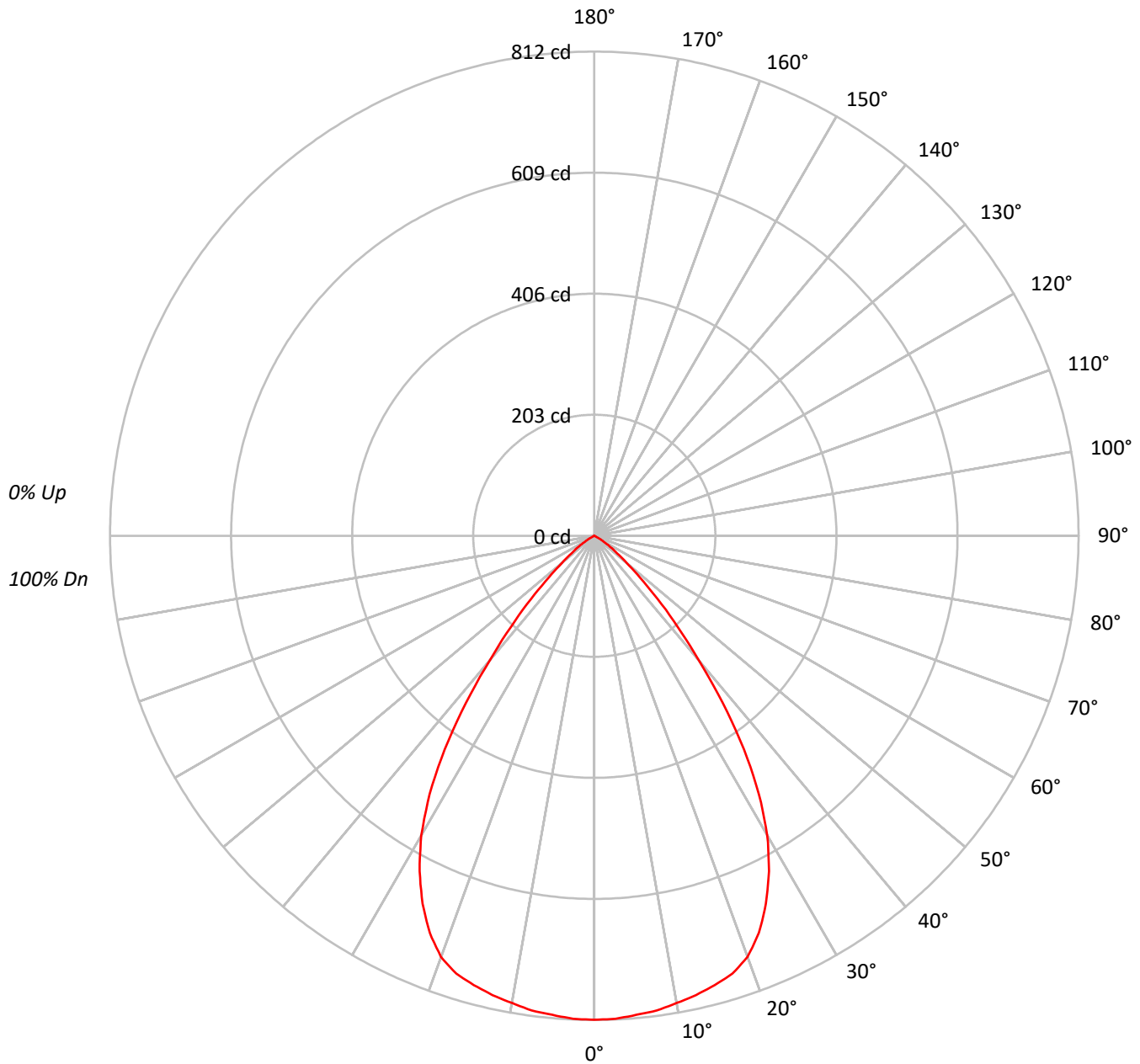
Downlight



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93						
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85						
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78						
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71						
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65						
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60						
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56						
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51						
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48						
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88687
5°	88466
10°	88280
15°	88241
20°	87379
25°	82087
30°	73187
35°	58342
40°	38738
45°	23162
50°	12001
55°	6305
60°	2229
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 23162 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	7.5
10°-20°	220.0	21.4
20°-30°	310.4	30.2
30°-40°	267.9	26.1
40°-50°	120.0	11.7
50°-60°	31.4	3.1
60°-70°	2.1	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°	607.0	59.0
0°-40°	875.0	85.1
0°-60°	1026.4	99.8
0°-90°	1028.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	812	
5°	807	77
15°	780	220
25°	681	310
35°	437	268
45°	150	120
55°	33	31
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	811.7
2.5°	810.8
5°	806.6
7.5°	803.0
10°	795.7
12.5°	788.9
15°	780.1
17.5°	770.1
20°	751.5
22.5°	721.1
25°	680.9
27.5°	634.4
30°	580.1
32.5°	513.7
35°	437.4
37.5°	353.4
40°	271.6
42.5°	206.4
45°	149.9
47.5°	103.4
50°	70.6
52.5°	48.8
55°	33.1
57.5°	20.0
60°	10.2
62.5°	3.2
65°	0.2
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



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— 0°-180°







(END OF REPORT)