

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: P780053

Luminaire Tested: LER4D15D010-EC4DR700215IC9024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780053
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: LER4D15D010-EC4DR700215IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1244.9 lumens
Efficiency: N/A
Efficacy: 78.8 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): 15.8
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



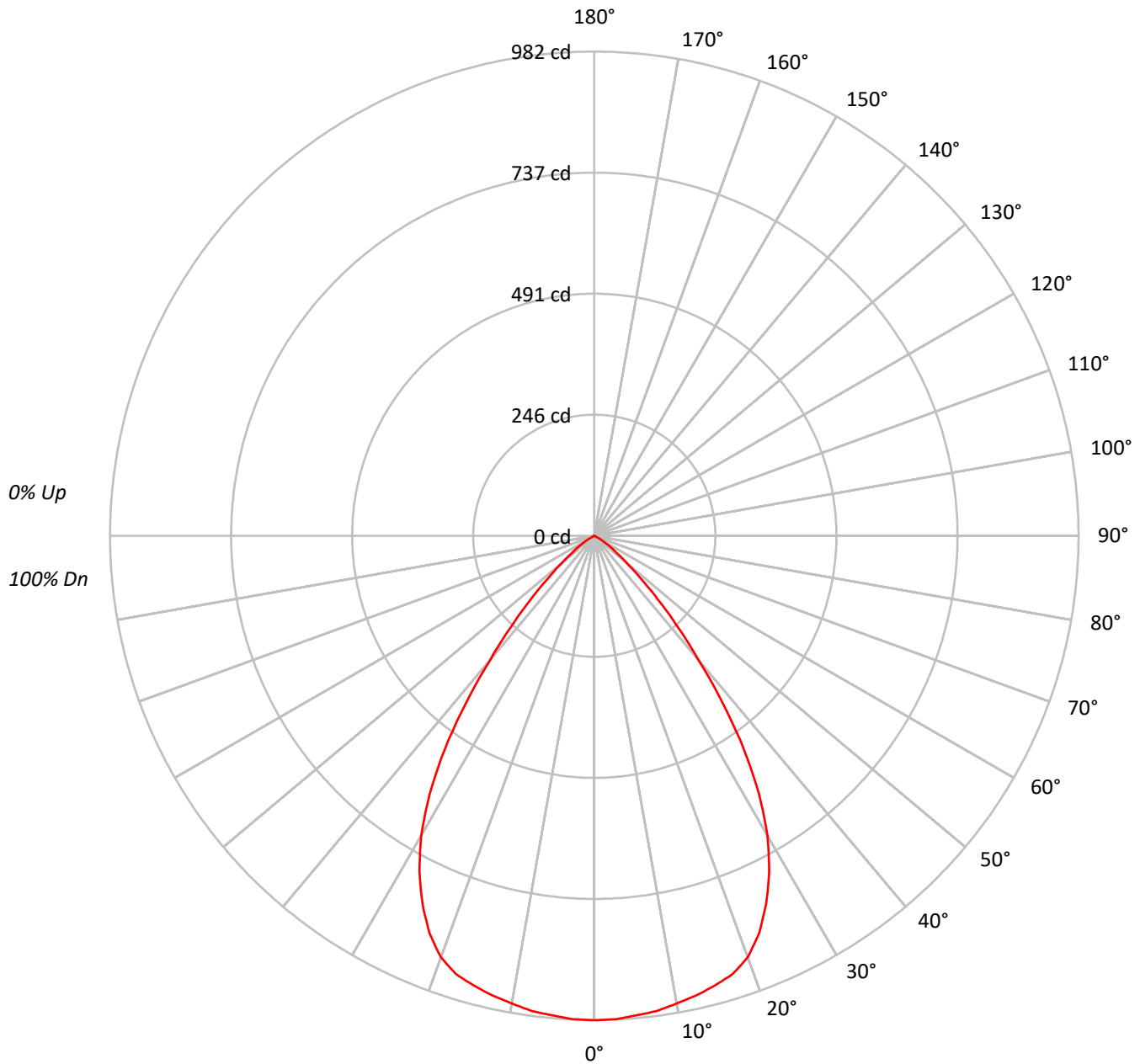
Downlight



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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	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	88	91	89	87	85	85	85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78				
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71	71	71				
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65	65	65				
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60				
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56	56	56				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51	51	51				
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48	48	48				
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44	44	44				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107349
5°	107090
10°	106852
15°	106815
20°	105773
25°	99362
30°	88592
35°	70626
40°	46897
45°	28045
50°	14533
55°	7639
60°	2710
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	7.5
10°-20°	266.3	21.4
20°-30°	375.7	30.2
30°-40°	324.3	26.1
40°-50°	145.2	11.7
50°-60°	38.0	3.1
60°-70°	2.5	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°	734.8	59.0
0°-40°	1059.1	85.1
0°-60°	1242.4	99.8
0°-90°	1244.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	982	
5°	976	93
15°	944	266
25°	824	376
35°	530	324
45°	182	145
55°	40	38
65°	0	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	982.5
2.5°	981.5
5°	976.4
7.5°	972.1
10°	963.1
12.5°	954.9
15°	944.3
17.5°	932.2
20°	909.7
22.5°	872.8
25°	824.2
27.5°	767.9
30°	702.2
32.5°	621.8
35°	529.5
37.5°	427.8
40°	328.8
42.5°	249.8
45°	181.5
47.5°	125.1
50°	85.5
52.5°	59.0
55°	40.1
57.5°	24.2
60°	12.4
62.5°	3.9
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)