

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: P778780

Luminaire Tested: LER4D02D010-EC4DR650210IC9024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778780
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: LER4D02D010-EC4DR650210IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 260.4 lumens
Efficiency: N/A
Efficacy: 51.1 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): 5.1
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



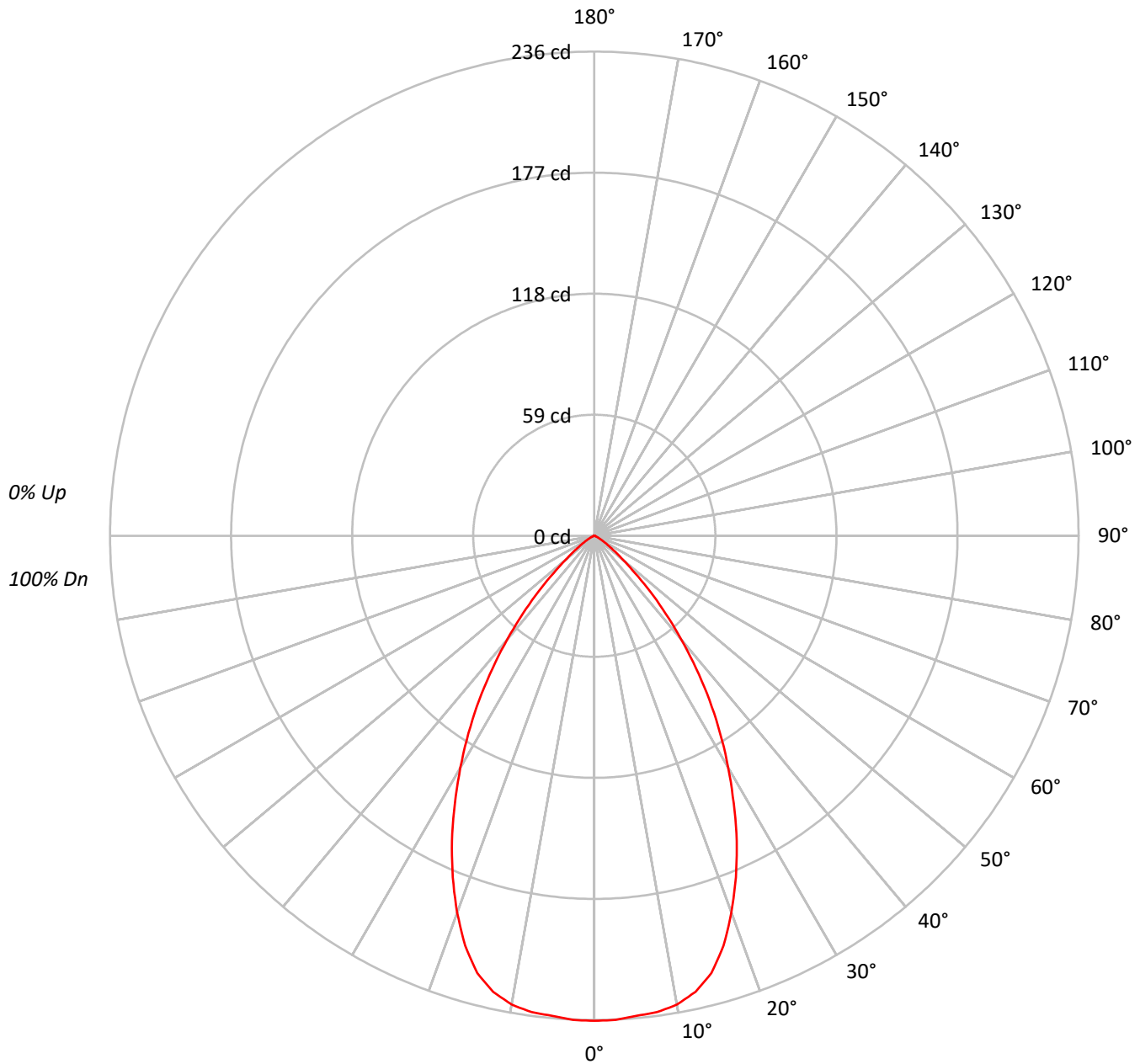
Downlight



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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	105	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	89	91	89	87	85						
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78						
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72						
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66						
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61						
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56						
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52						
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49						
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13807
5°	13771
10°	13759
15°	13338
20°	12145
25°	10581
30°	8801
35°	6973
40°	5032
45°	3180
50°	1654
55°	886
60°	467
65°	249
70°	102
75°	113
80°	67
85°	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.4	8.6
10°-20°	61.2	23.5
20°-30°	74.8	28.7
30°-40°	60.7	23.3
40°-50°	30.3	11.6
50°-60°	8.4	3.2
60°-70°	1.9	0.7
70°-80°	0.5	0.2
80°-90°	0.1	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°	158.4	60.8
0°-40°	219.1	84.2
0°-60°	257.8	99.0
0°-90°	260.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	260.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	236	
5°	235	22
15°	221	61
25°	164	75
35°	98	61
45°	38	30
55°	9	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	236.4
2.5°	236.2
5°	234.9
7.5°	234.2
10°	232.0
12.5°	227.7
15°	220.6
17.5°	209.4
20°	195.4
22.5°	180.2
25°	164.2
27.5°	147.1
30°	130.5
32.5°	114.1
35°	97.8
37.5°	81.5
40°	66.0
42.5°	51.5
45°	38.5
47.5°	26.8
50°	18.2
52.5°	12.6
55°	8.7
57.5°	5.8
60°	4.0
62.5°	2.8
65°	1.8
67.5°	0.9
70°	0.6
72.5°	0.6
75°	0.5
77.5°	0.3
80°	0.2
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0



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— 0°-180°







(END OF REPORT)