

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: P780059

Luminaire Tested: LER4D15D010-EC4DR700215IC9027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780059
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-EC4DR700215IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1312.2 lumens
Efficiency: N/A
Efficacy: 83.0 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



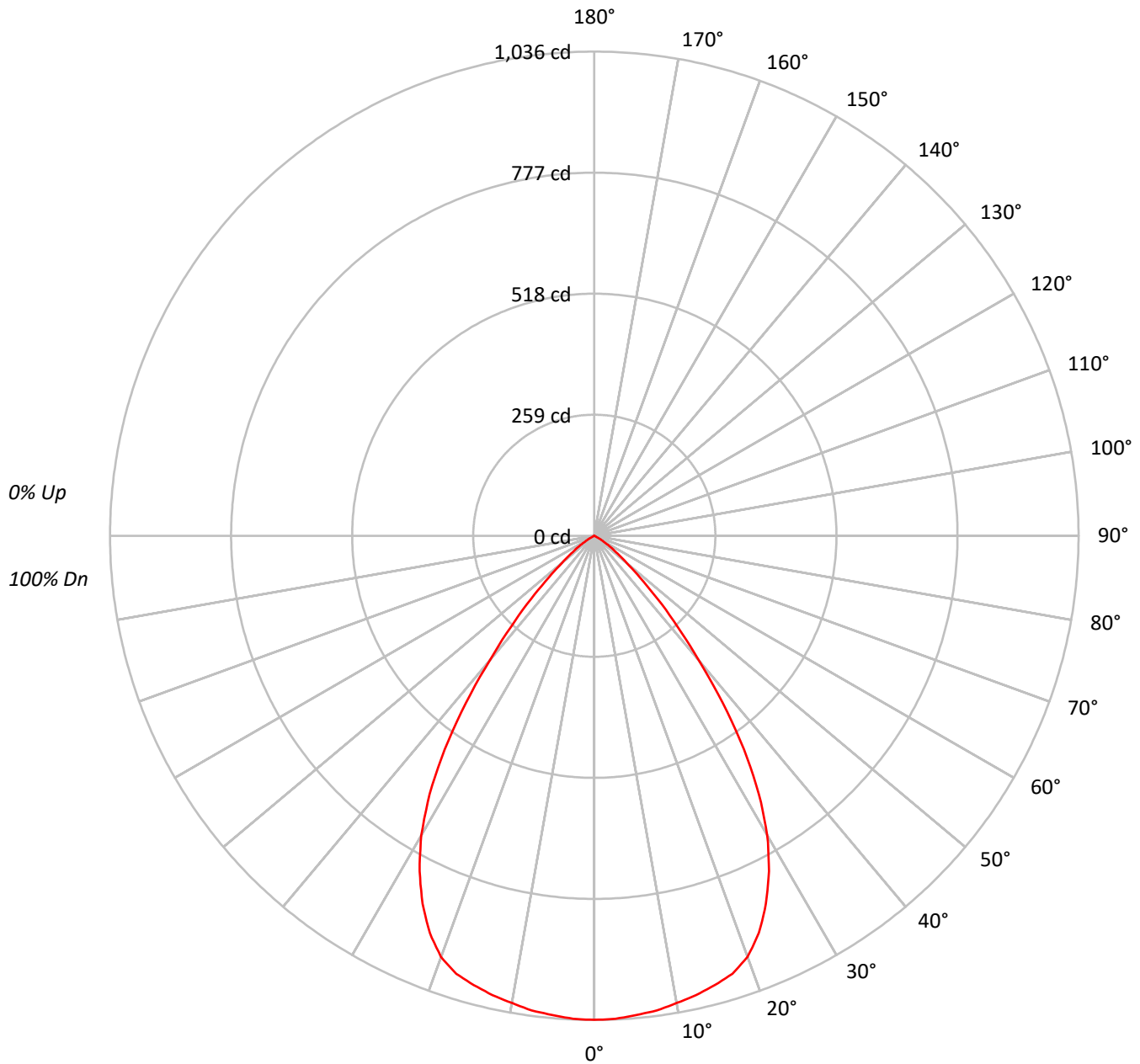
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	93	93	93	
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85	85	85	
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78	78	78	
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71	71	71	71	71	71	
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65	65	65	65	65	65	
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	60	60	60	
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56	56	56	56	56	56	
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51	51	51	51	51	51	
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48	48	48	48	48	48	
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44	44	44	44	44	44	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113161
5°	112881
10°	112633
15°	112595
20°	111494
25°	104739
30°	93374
35°	74454
40°	49435
45°	29559
50°	15315
55°	8058
60°	2863
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	7.5
10°-20°	280.7	21.4
20°-30°	396.0	30.2
30°-40°	341.9	26.1
40°-50°	153.1	11.7
50°-60°	40.1	3.1
60°-70°	2.6	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°	774.5	59.0
0°-40°	1116.4	85.1
0°-60°	1309.5	99.8
0°-90°	1312.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1312.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1036	
5°	1029	98
15°	995	281
25°	869	396
35°	558	342
45°	191	153
55°	42	40
65°	0	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1035.7
2.5°	1034.6
5°	1029.2
7.5°	1024.7
10°	1015.2
12.5°	1006.6
15°	995.4
17.5°	982.6
20°	958.9
22.5°	920.0
25°	868.8
27.5°	809.4
30°	740.1
32.5°	655.4
35°	558.2
37.5°	450.9
40°	346.6
42.5°	263.3
45°	191.3
47.5°	131.8
50°	90.1
52.5°	62.2
55°	42.3
57.5°	25.5
60°	13.1
62.5°	4.1
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)