

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: P781881

Luminaire Tested: LER4D50D010-EC4DR6540509027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781881
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: LER4D50D010-EC4DR6540509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4332.9 lumens
Efficiency: N/A
Efficacy: 92.2 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): 47
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

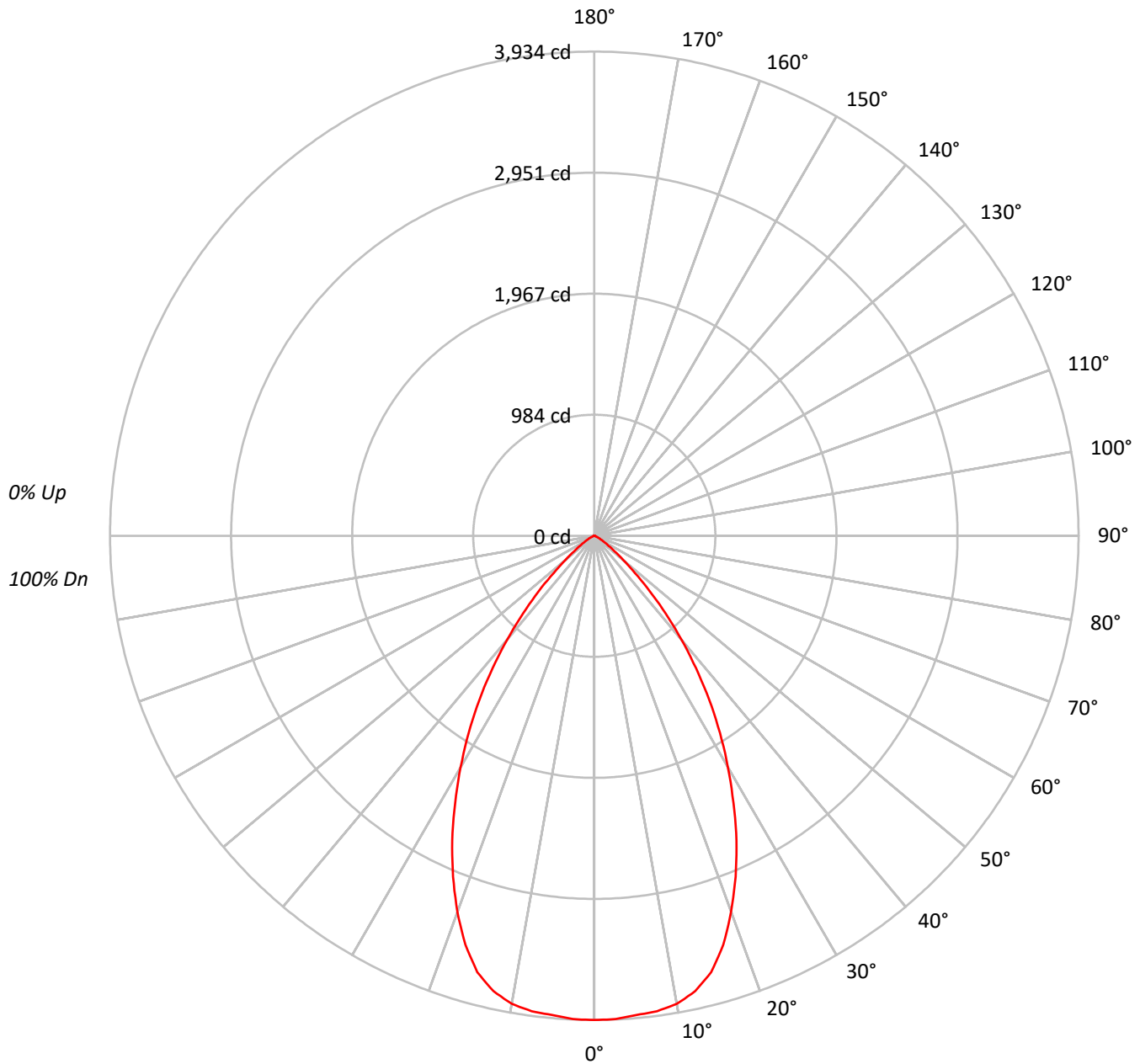


Downlight

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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	88	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°	229767
5°	229185
10°	228994
15°	221934
20°	202044
25°	176067
30°	146437
35°	116030
40°	83743
45°	52911
50°	27576
55°	14663
60°	7698
65°	4229
70°	1776
75°	1963
80°	1345
85°	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	8.6
10°-20°	1018.8	23.5
20°-30°	1245.3	28.7
30°-40°	1010.4	23.3
40°-50°	503.5	11.6
50°-60°	140.4	3.2
60°-70°	31.9	0.7
70°-80°	8.3	0.2
80°-90°	2.1	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°	2636.1	60.8
0°-40°	3646.6	84.2
0°-60°	4290.5	99.0
0°-90°	4332.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4332.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3934	
5°	3909	372
15°	3670	1019
25°	2732	1245
35°	1627	1010
45°	641	504
55°	144	140
65°	31	32
75°	9	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3934.1
2.5°	3931.2
5°	3909.2
7.5°	3896.5
10°	3861.3
12.5°	3789.6
15°	3670.5
17.5°	3484.3
20°	3250.8
22.5°	2998.7
25°	2732.2
27.5°	2447.2
30°	2171.4
32.5°	1899.1
35°	1627.4
37.5°	1356.3
40°	1098.4
42.5°	856.8
45°	640.6
47.5°	446.3
50°	303.5
52.5°	209.3
55°	144.0
57.5°	97.1
60°	65.9
62.5°	45.7
65°	30.6
67.5°	15.6
70°	10.4
72.5°	9.8
75°	8.7
77.5°	5.8
80°	4.0
82.5°	2.9
85°	1.7
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)