

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: P781894

Luminaire Tested: LER4D50D010-EC4DR6540509040-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781894
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-EC4DR6540509040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4957.7 lumens
Efficiency: N/A
Efficacy: 105.5 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

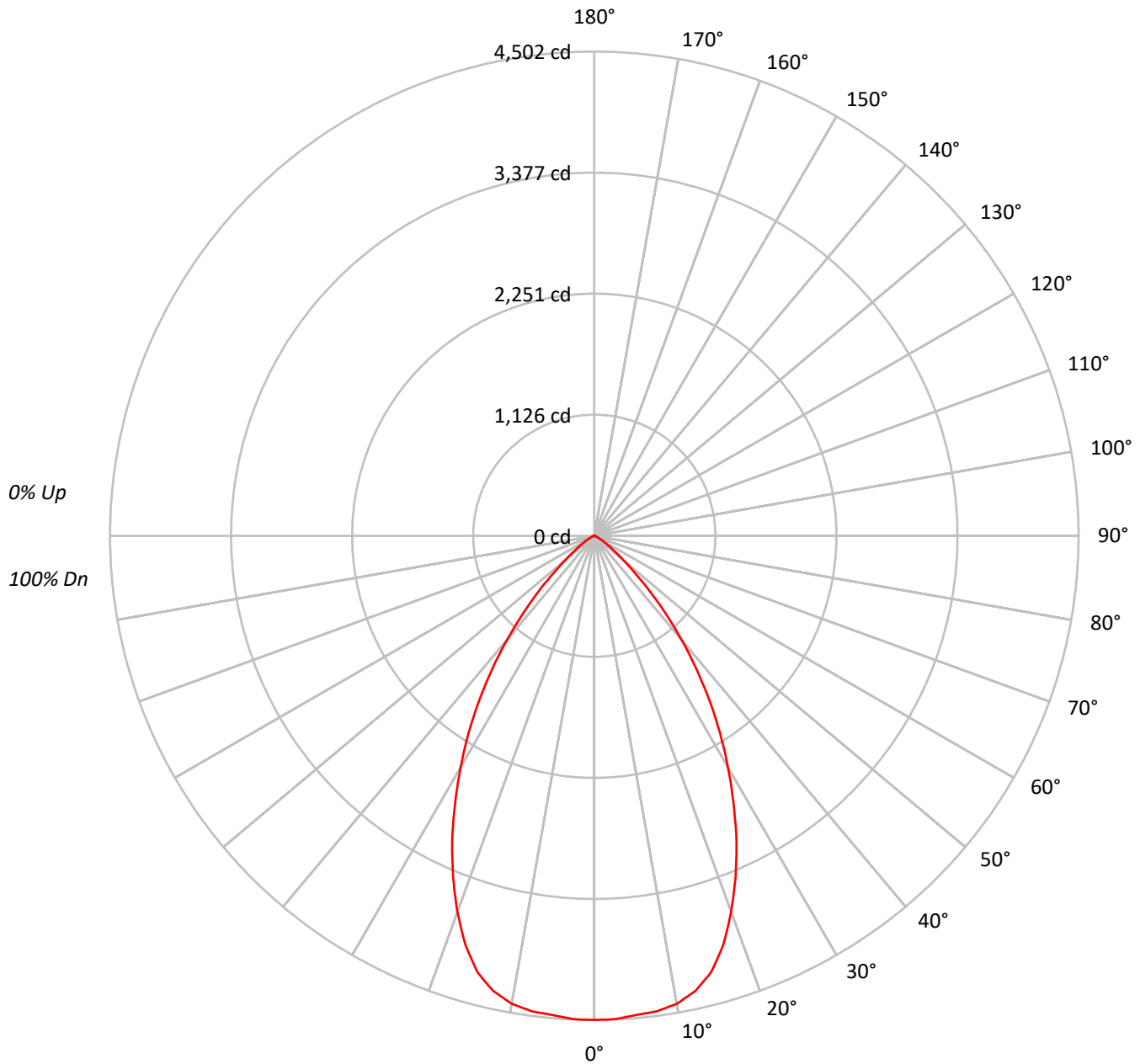


Downlight

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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	100	100				
1	113	110	107	105	111	108	105	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	86	82	87	84	81	85	82	80	78	78	78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	262905
5°	262244
10°	262021
15°	253943
20°	231181
25°	201464
30°	167559
35°	132764
40°	95827
45°	60534
50°	31556
55°	16770
60°	8807
65°	4851
70°	2032
75°	2234
80°	1547
85°	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60534 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	8.6
10°-20°	1165.7	23.5
20°-30°	1424.9	28.7
30°-40°	1156.1	23.3
40°-50°	576.1	11.6
50°-60°	160.7	3.2
60°-70°	36.5	0.7
70°-80°	9.5	0.2
80°-90°	2.4	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°	3016.4	60.8
0°-40°	4172.5	84.2
0°-60°	4909.3	99.0
0°-90°	4957.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4957.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4502	
5°	4473	426
15°	4200	1166
25°	3126	1425
35°	1862	1156
45°	733	576
55°	165	161
65°	35	37
75°	10	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4501.5
2.5°	4498.2
5°	4473.1
7.5°	4458.5
10°	4418.2
12.5°	4336.1
15°	4199.9
17.5°	3986.9
20°	3719.6
22.5°	3431.2
25°	3126.3
27.5°	2800.1
30°	2484.6
32.5°	2173.0
35°	1862.1
37.5°	1551.9
40°	1256.9
42.5°	980.3
45°	732.9
47.5°	510.7
50°	347.3
52.5°	239.5
55°	164.7
57.5°	111.1
60°	75.4
62.5°	52.3
65°	35.1
67.5°	17.9
70°	11.9
72.5°	11.2
75°	9.9
77.5°	6.6
80°	4.6
82.5°	3.3
85°	2.0
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)