

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: P785193

Luminaire Tested: LER4DD50D010-EC4DR4540509027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR4540509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4811.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' 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

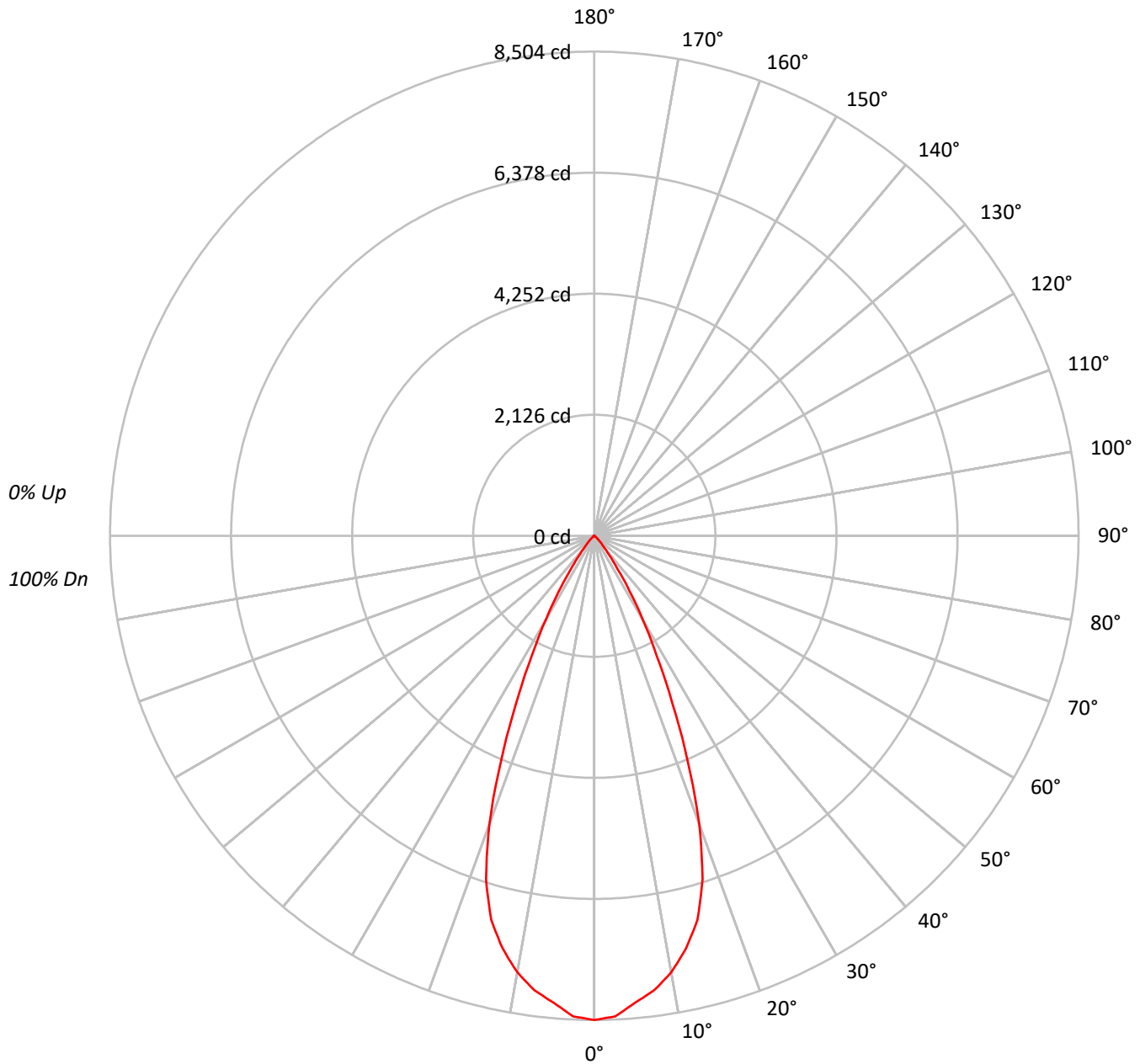


Downlight

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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95						
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90						
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85						
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81						
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77						
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73						
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69						
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66						
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63						
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	929153
5°	902695
10°	863639
15°	790403
20°	627071
25°	391481
30°	215777
35°	96889
40°	38153
45°	17986
50°	8533
55°	4457
60°	2185
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17986 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.3	16.1
10°-20°	1903.2	39.6
20°-30°	1507.2	31.3
30°-40°	501.9	10.4
40°-50°	99.6	2.1
50°-60°	22.6	0.5
60°-70°	3.3	0.1
70°-80°	0.1	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°	4183.7	87.0
0°-40°	4685.7	97.4
0°-60°	4807.9	99.9
0°-90°	4811.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8504	
5°	8230	773
15°	6988	1903
25°	3247	1507
35°	726	502
45°	116	100
55°	23	23
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8504.0
2.5°	8448.5
5°	8230.4
7.5°	8050.5
10°	7784.3
12.5°	7429.8
15°	6987.6
17.5°	6322.8
20°	5393.1
22.5°	4285.4
25°	3247.3
27.5°	2377.8
30°	1710.3
32.5°	1163.2
35°	726.4
37.5°	430.8
40°	267.5
42.5°	175.9
45°	116.4
47.5°	74.9
50°	50.2
52.5°	33.4
55°	23.4
57.5°	15.4
60°	10.0
62.5°	5.4
65°	2.0
67.5°	0.7
70°	0.7
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)