

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: P781706

Luminaire Tested: LER4D50D010-EC4DR2540509050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR2540509050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5091.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): 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

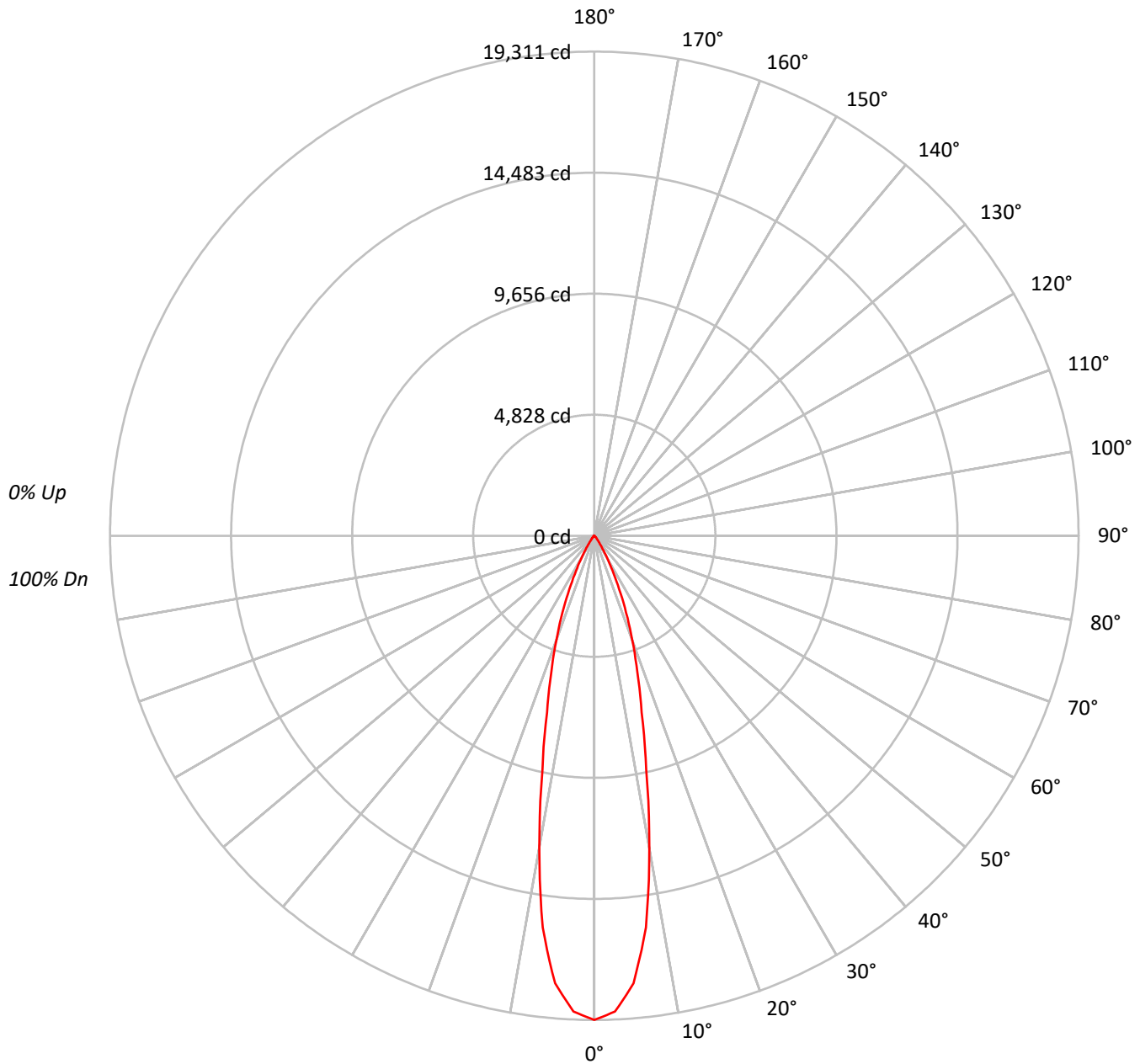


Downlight

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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					0
RW	70	50	30	10	70	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		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2109945
5°	1965147
10°	1401795
15°	825604
20°	513705
25°	281920
30°	128926
35°	48831
40°	22108
45°	13289
50°	5524
55°	3562
60°	2491
65°	1680
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13289 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1539.9	30.2
10°-20°	2085.6	41.0
20°-30°	1103.7	21.7
30°-40°	272.4	5.4
40°-50°	66.5	1.3
50°-60°	17.5	0.3
60°-70°	5.9	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°	4729.2	92.9
0°-40°	5001.6	98.2
0°-60°	5085.5	99.9
0°-90°	5091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19311	
5°	17917	###
15°	7299	2086
25°	2338	1104
35°	366	272
45°	86	66
55°	19	17
65°	6	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19311.1
2.5°	18993.7
5°	17917.4
7.5°	15755.0
10°	12634.9
12.5°	9551.2
15°	7298.8
17.5°	5688.4
20°	4418.1
22.5°	3313.3
25°	2338.5
27.5°	1568.2
30°	1021.9
32.5°	621.8
35°	366.1
37.5°	224.0
40°	155.0
42.5°	118.5
45°	86.0
47.5°	51.9
50°	32.5
52.5°	23.5
55°	18.7
57.5°	14.6
60°	11.4
62.5°	8.9
65°	6.5
67.5°	2.4
70°	0.8
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)