

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: P781877

Luminaire Tested: LER4D50D010-EC4DR6540509024-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781877
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-EC4DR6540509024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3824.9 lumens
Efficiency: N/A
Efficacy: 81.4 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

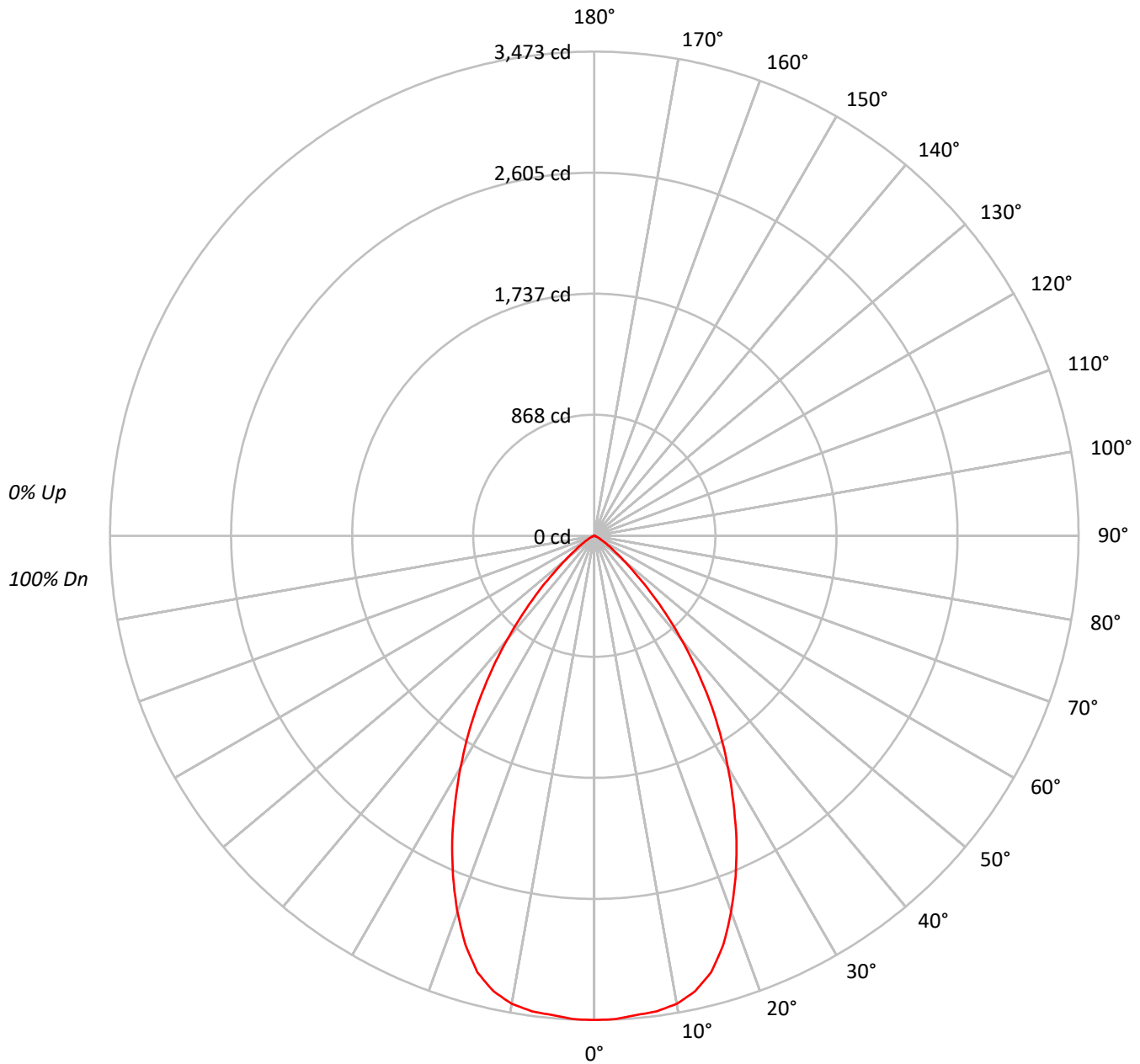


Downlight

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202837
5°	202322
10°	202152
15°	195916
20°	178358
25°	155427
30°	129274
35°	102427
40°	73931
45°	46708
50°	24341
55°	12942
60°	6798
65°	3731
70°	1571
75°	1738
80°	1211
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	8.6
10°-20°	899.4	23.5
20°-30°	1099.3	28.7
30°-40°	892.0	23.3
40°-50°	444.5	11.6
50°-60°	124.0	3.2
60°-70°	28.2	0.7
70°-80°	7.4	0.2
80°-90°	1.9	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°	2327.1	60.8
0°-40°	3219.1	84.2
0°-60°	3787.5	99.0
0°-90°	3824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3473	
5°	3451	328
15°	3240	899
25°	2412	1099
35°	1437	892
45°	566	444
55°	127	124
65°	27	28
75°	8	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3473.0
2.5°	3470.4
5°	3451.0
7.5°	3439.8
10°	3408.7
12.5°	3345.4
15°	3240.2
17.5°	3075.9
20°	2869.7
22.5°	2647.2
25°	2411.9
27.5°	2160.3
30°	1916.9
32.5°	1676.5
35°	1436.6
37.5°	1197.3
40°	969.7
42.5°	756.3
45°	565.5
47.5°	394.0
50°	267.9
52.5°	184.7
55°	127.1
57.5°	85.7
60°	58.2
62.5°	40.3
65°	27.0
67.5°	13.8
70°	9.2
72.5°	8.7
75°	7.7
77.5°	5.1
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)