

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: P781713

Luminaire Tested: LER4D50D010-EC4DR3040509027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR3040509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4828.7 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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

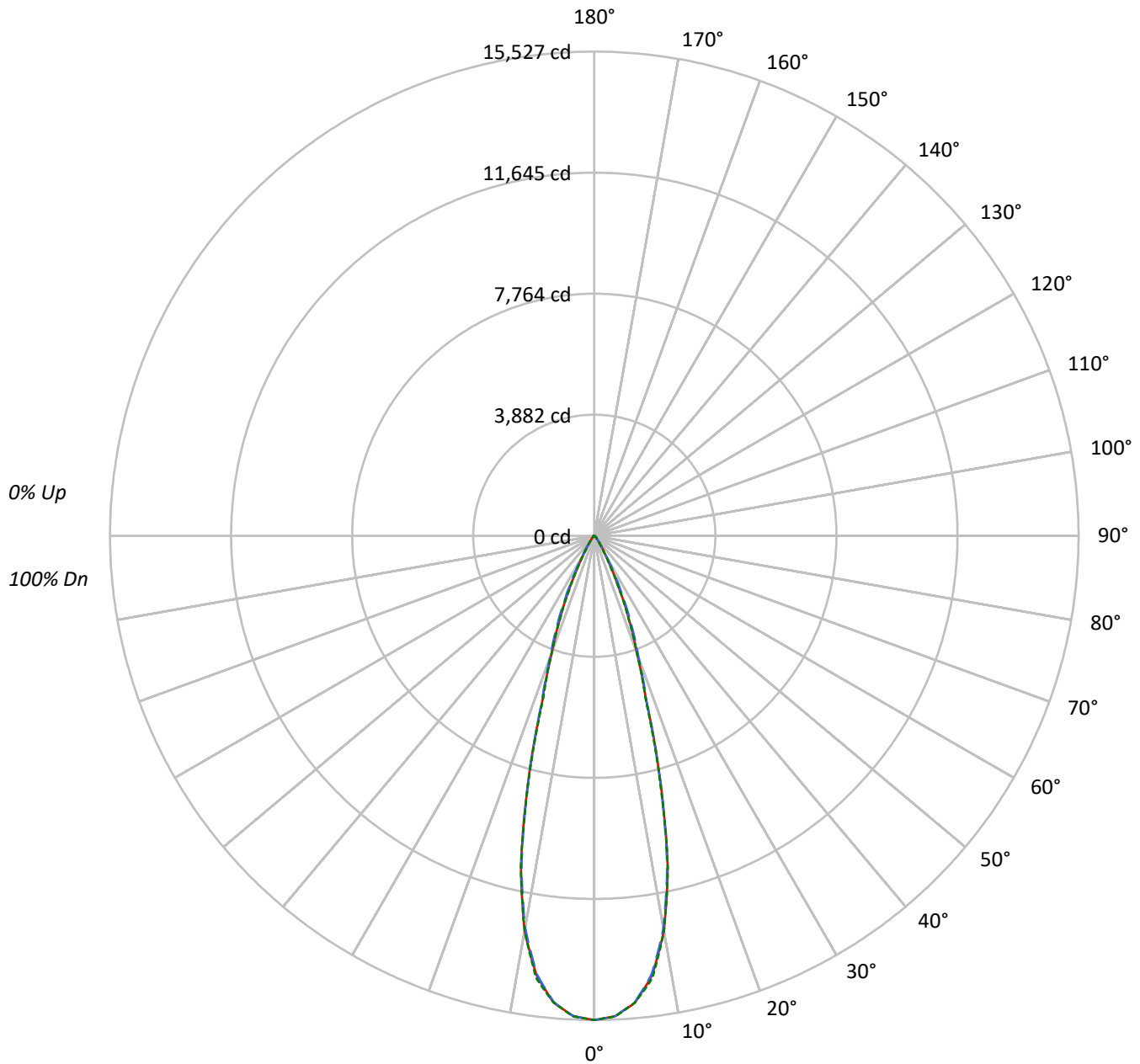


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1188466	1188466	1188466
5°	1154342	1152998	1154404
10°	999836	992787	999603
15°	652341	648838	645581
20°	324381	336551	323950
25°	163398	184258	160053
30°	65422	71282	56999
35°	30341	29061	24360
40°	13100	14548	12340
45°	9244	11474	9320
50°	3179	8348	3358
55°	1828	3456	1935
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1365.3	28.3
10°-20°	2198.9	45.5
20°-30°	950.2	19.7
30°-40°	216.6	4.5
40°-50°	74.4	1.5
50°-60°	18.2	0.4
60°-70°	4.7	0.1
70°-80°	0.5	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°	4514.4	93.5
0°-40°	4731.0	98.0
0°-60°	4823.5	99.9
0°-90°	4828.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4828.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15527	15527	15527	15527	15527	
5°	15024	15009	15006	15037	15024	1366
15°	8232	8133	8188	8161	8147	2204
25°	1935	2008	2182	1957	1895	926
35°	325	332	311	309	261	220
45°	85	106	106	106	86	61
55°	14	14	26	15	14	13
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15526.7	15526.7	15526.7	15526.7	15526.7
2.5°	15423.7	15413.1	15419.2	15426.8	15429.8
5°	15023.5	15009.1	15006.0	15037.3	15024.3
7.5°	14216.3	14195.7	14164.4	14235.3	14301.6
10°	12863.9	12841.1	12773.2	12806.8	12860.9
12.5°	10867.4	10793.5	10792.0	10898.7	10884.2
15°	8232.1	8133.0	8187.9	8161.3	8146.8
17.5°	5535.9	5497.8	5570.9	5548.8	5453.5
20°	3982.3	3992.2	4131.7	4061.6	3977.0
22.5°	2905.9	2941.7	3107.2	2926.5	2860.2
25°	1934.7	2007.9	2181.7	1956.8	1895.1
27.5°	1190.0	1223.5	1399.6	1174.7	1141.2
30°	740.2	723.4	806.5	692.2	644.9
32.5°	485.6	464.2	490.9	440.6	402.5
35°	324.7	331.6	311.0	308.7	260.7
37.5°	202.8	233.3	205.8	219.5	167.7
40°	131.1	169.2	145.6	160.8	123.5
42.5°	107.5	130.4	119.7	127.3	109.8
45°	85.4	106.0	106.0	106.0	86.1
47.5°	47.3	70.9	90.7	72.4	50.3
50°	26.7	35.8	70.1	37.4	28.2
52.5°	18.3	20.6	48.0	21.3	19.1
55°	13.7	14.5	25.9	15.2	14.5
57.5°	10.7	11.4	13.7	11.4	10.7
60°	8.4	8.4	9.9	9.1	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)