

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: P781721

Luminaire Tested: LER4D50D010-EC4DR3040509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781721
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-EC4DR3040509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5027.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

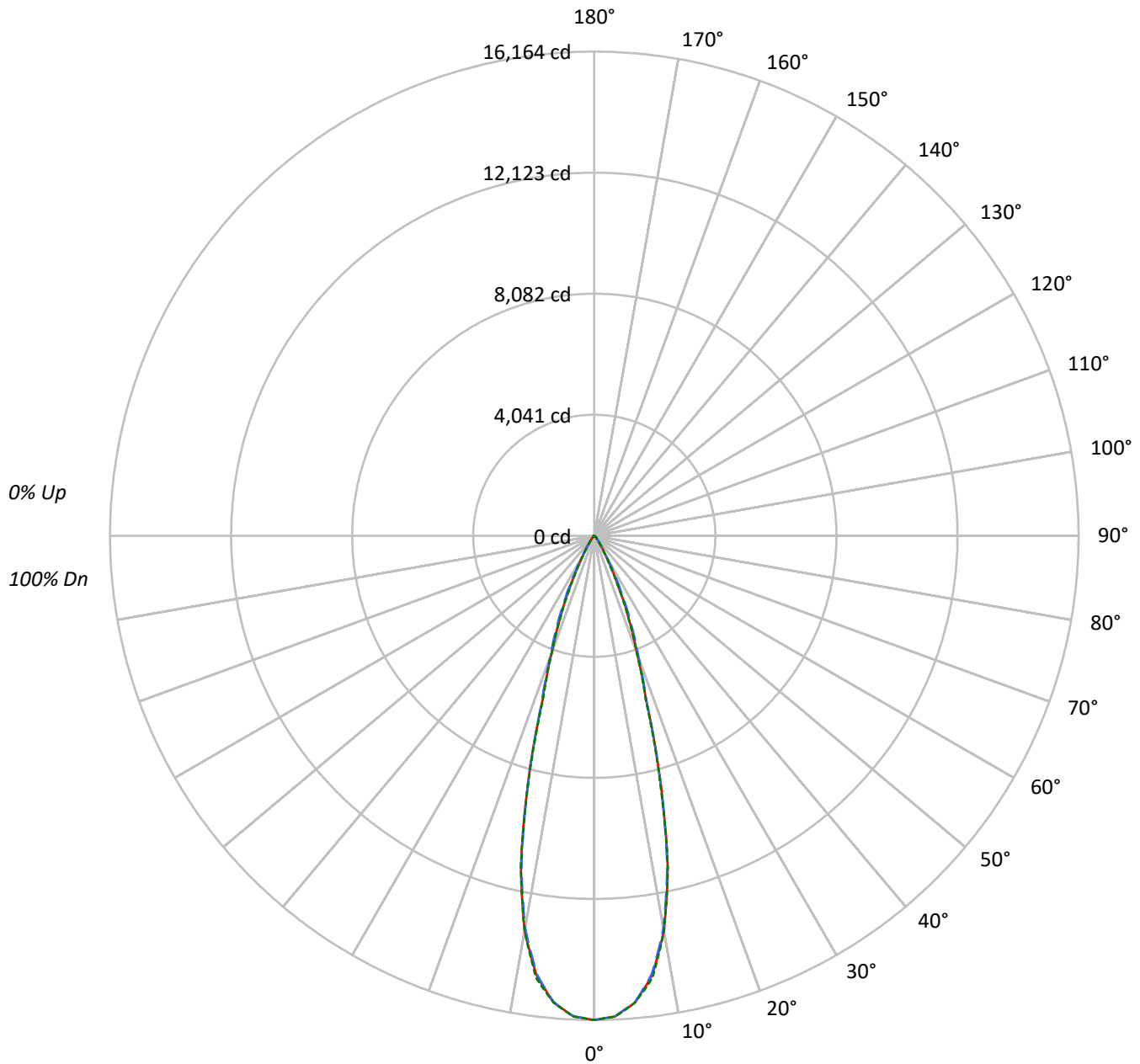


Downlight

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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°	1237278	1237278	1237278
5°	1201758	1200352	1201819
10°	1040906	1033561	1040657
15°	679141	675488	672096
20°	337699	350374	337251
25°	170112	191826	166624
30°	68109	74208	59341
35°	31593	30257	25360
40°	13639	15148	12850
45°	9623	11940	9710
50°	3310	8693	3501
55°	1908	3603	2015
60°	1332	1577	1332
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11940 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1421.4	28.3
10°-20°	2289.2	45.5
20°-30°	989.2	19.7
30°-40°	225.5	4.5
40°-50°	77.4	1.5
50°-60°	18.9	0.4
60°-70°	4.9	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°	4699.8	93.5
0°-40°	4925.3	98.0
0°-60°	5021.6	99.9
0°-90°	5027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16164	16164	16164	16164	16164	
5°	15641	15626	15622	15655	15641	1423
15°	8570	8467	8524	8496	8481	2295
25°	2014	2090	2271	2037	1973	964
35°	338	345	324	321	271	229
45°	89	110	110	110	90	63
55°	14	15	27	16	15	14
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°	16164.4	16164.4	16164.4	16164.4	16164.4
2.5°	16057.2	16046.1	16052.5	16060.4	16063.6
5°	15640.6	15625.5	15622.3	15654.9	15641.4
7.5°	14800.1	14778.7	14746.2	14820.0	14889.0
10°	13392.3	13368.5	13297.8	13332.7	13389.1
12.5°	11313.8	11236.8	11235.2	11346.3	11331.2
15°	8570.3	8467.1	8524.2	8496.4	8481.4
17.5°	5763.2	5723.6	5799.7	5776.7	5677.5
20°	4145.8	4156.2	4301.4	4228.4	4140.3
22.5°	3025.3	3062.6	3234.8	3046.7	2977.6
25°	2014.2	2090.4	2271.3	2037.2	1972.9
27.5°	1238.8	1273.8	1457.1	1223.0	1188.0
30°	770.6	753.1	839.6	720.6	671.4
32.5°	505.5	483.3	511.1	458.7	419.0
35°	338.1	345.2	323.8	321.4	271.4
37.5°	211.1	242.8	214.3	228.6	174.6
40°	136.5	176.2	151.6	167.5	128.6
42.5°	111.9	135.7	124.6	132.5	114.3
45°	88.9	110.3	110.3	110.3	89.7
47.5°	49.2	73.8	94.4	75.4	52.4
50°	27.8	37.3	73.0	38.9	29.4
52.5°	19.0	21.4	50.0	22.2	19.8
55°	14.3	15.1	27.0	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	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)