

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: METALUX

Report Number: P1212245

Luminaire Tested: 4VT3-LD5-6-G-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-LD5-6-G-UNV-L830-CD1-U
Description: 4FT VT3 GENERAL APPLICATION, 6000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

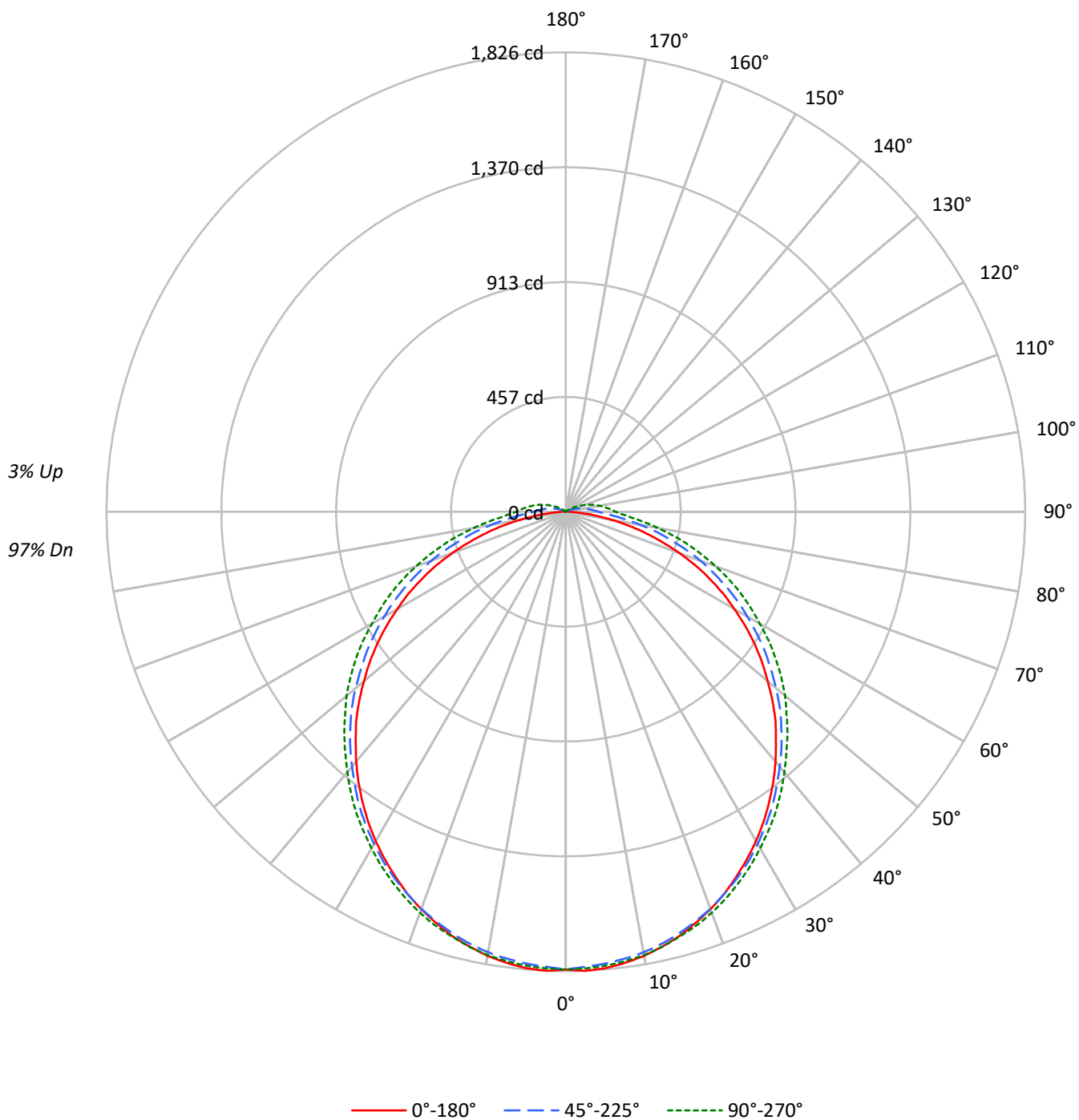
Lumens per Lamp: N/A
Luminaire Lumens: 5634.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 51.1
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

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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	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11750	11750	11750
5°	11541	9984	9635
10°	11237	8676	8145
15°	10910	7621	7000
20°	10554	6750	6104
25°	10178	6001	5351
30°	9798	5347	4713
35°	9394	4766	4172
40°	8970	4227	3677
45°	8541	3749	3251
50°	8030	3296	2873
55°	7517	2869	2509
60°	6885	2458	2157
65°	6188	2070	1842
70°	5289	1690	1521
75°	4158	1295	1214
80°	2775	932	909
85°	1250	614	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8541 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.1
10°-20°	492.1	8.7
20°-30°	743.4	13.2
30°-40°	895.6	15.9
40°-50°	935.7	16.6
50°-60°	864.4	15.3
60°-70°	693.1	12.3
70°-80°	448.9	8.0
80°-90°	207.4	3.7
90°-100°	102.3	1.8
100°-110°	54.6	1.0
110°-120°	21.2	0.4
120°-130°	3.9	0.1
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°	1407.7	25.0
0°-40°	2303.3	40.9
0°-60°	4103.4	72.8
0°-90°	5452.8	96.8
90°-120°	178.1	3.2
90°-150°	182.0	3.2
90°-180°	182.0	3.2
0°-180°	5634.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1821	1815	1803	1814	1811	173
15°	1746	1744	1736	1750	1748	492
25°	1602	1606	1609	1624	1626	738
35°	1409	1418	1431	1447	1455	881
45°	1179	1192	1212	1235	1246	908
55°	916	936	965	1001	1018	818
65°	631	650	702	748	767	624
75°	329	370	430	482	502	348
85°	67	123	193	244	262	81
90°	15	62	129	179	197	10
95°	10	38	98	148	166	7
105°	4	8	49	90	107	5
115°	1	1	14	40	52	2
125°	1	0	0	7	12	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.4	1819.4	1819.4	1819.4	1819.4
2.5°	1826.3	1820.8	1809.9	1819.4	1816.7
5°	1820.8	1815.3	1803.0	1814.0	1811.2
7.5°	1808.5	1803.0	1792.1	1804.4	1801.7
10°	1792.1	1788.0	1778.3	1789.4	1789.4
12.5°	1770.2	1768.8	1759.2	1771.5	1771.5
15°	1745.6	1744.2	1735.9	1749.7	1748.3
17.5°	1714.1	1715.4	1708.6	1722.2	1725.0
20°	1681.2	1681.2	1679.8	1693.5	1696.2
22.5°	1644.2	1645.6	1644.2	1660.7	1663.4
25°	1601.8	1605.9	1608.6	1623.7	1626.4
27.5°	1558.0	1563.4	1568.9	1584.0	1588.1
30°	1511.4	1515.5	1525.1	1541.6	1544.3
32.5°	1462.2	1470.3	1478.5	1495.0	1500.5
35°	1408.8	1418.3	1430.6	1447.0	1455.3
37.5°	1354.0	1364.9	1375.9	1397.8	1404.6
40°	1296.5	1308.8	1322.5	1343.0	1351.2
42.5°	1236.2	1252.7	1269.1	1291.0	1297.9
45°	1178.7	1192.4	1211.6	1234.8	1245.9
47.5°	1114.4	1132.2	1154.1	1178.7	1189.7
50°	1047.3	1066.4	1091.1	1119.9	1137.7
52.5°	982.9	1002.1	1026.7	1062.3	1078.8
55°	915.9	936.4	965.2	1000.8	1018.5
57.5°	846.1	868.0	899.4	939.1	957.0
60°	773.5	796.8	833.8	877.6	889.9
62.5°	705.1	726.9	769.4	811.8	829.7
65°	631.1	650.3	702.3	747.5	766.6
67.5°	558.5	580.5	635.2	684.5	701.0
70°	480.5	507.9	569.6	614.7	633.9
72.5°	402.5	435.3	499.7	549.0	566.8
75°	328.6	369.7	429.9	481.9	502.4
77.5°	257.4	299.8	368.3	416.2	436.7
80°	184.8	235.5	302.5	351.8	371.0
82.5°	123.2	175.2	242.3	294.3	314.9
85°	67.1	123.2	193.1	243.7	261.5
87.5°	31.5	86.2	152.0	202.6	223.1
90°	15.0	61.6	128.7	179.3	197.2
92.5°	12.3	47.9	113.7	162.9	182.0
95°	9.6	38.3	98.5	147.9	165.7
97.5°	8.2	27.4	86.2	132.8	152.0
100°	6.8	19.1	72.6	119.1	135.5
102.5°	5.5	12.3	60.2	105.4	121.9
105°	4.1	8.2	49.3	90.3	106.8
107.5°	4.1	4.1	39.7	76.7	93.1
110°	2.7	2.7	28.8	64.4	78.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	20.5	52.0	64.4
115°	1.4	1.4	13.7	39.7	52.0
117.5°	1.4	1.4	8.2	30.1	39.7
120°	1.4	1.4	4.1	20.5	30.1
122.5°	1.4	1.4	1.4	13.7	20.5
125°	1.4	0.0	0.0	6.8	12.3
127.5°	0.0	0.0	0.0	2.7	6.8
130°	0.0	0.0	0.0	0.0	1.4
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)