

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: P1212236

Luminaire Tested: 2VT3-LD5-4-G-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2VT3-LD5-4-G-UNV-L830-CD1-U
Description: 2FT VT3 GENRAL APPLICATION, 4000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

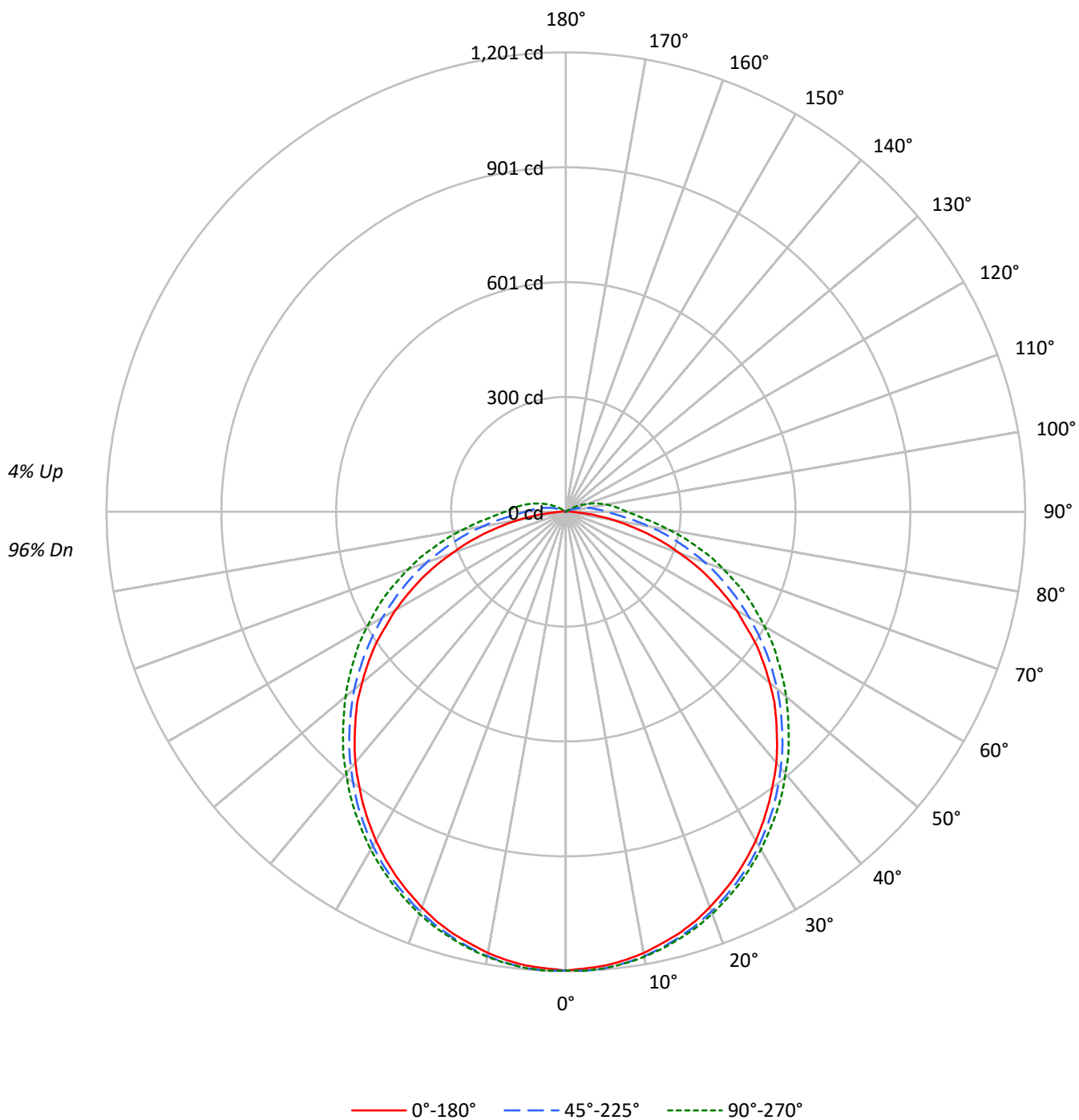
Lumens per Lamp: N/A
Luminaire Lumens: 3790.1 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 32.1
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

TEST NUMBER: P1212236

CATALOG NUMBER: 2VT3-LD5-4-G-UNV-L830-CD1-U

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	101	97	92	103	99	94	90	94	90	87	89	86	83	85	82	80
2	96	88	80	74	93	85	79	73	81	76	71	77	73	69	74	70	66
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	58	52	48
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	52	46	41
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36
7	63	49	40	34	61	48	40	34	46	39	33	44	38	33	43	37	32
8	59	45	36	30	57	44	36	30	42	35	30	41	34	29	39	33	29
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26
10	51	38	30	24	50	37	30	24	36	29	24	35	28	24	34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15491	15491	15491
5°	14768	13082	12740
10°	14071	11240	10756
15°	13394	9787	9245
20°	12714	8603	8053
25°	12050	7603	7063
30°	11385	6737	6226
35°	10706	5973	5505
40°	10051	5279	4861
45°	9346	4658	4300
50°	8628	4092	3797
55°	7866	3552	3332
60°	6989	3045	2906
65°	6028	2573	2508
70°	4904	2126	2102
75°	3736	1678	1719
80°	2442	1256	1346
85°	1115	877	1030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9346 cd/sqm

TEST NUMBER: P1212236

CATALOG NUMBER: 2VT3-LD5-4-G-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.0
10°-20°	324.4	8.6
20°-30°	490.0	12.9
30°-40°	590.6	15.6
40°-50°	617.9	16.3
50°-60°	572.8	15.1
60°-70°	464.7	12.3
70°-80°	312.4	8.2
80°-90°	160.1	4.2
90°-100°	82.8	2.2
100°-110°	43.0	1.1
110°-120°	15.8	0.4
120°-130°	2.2	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°	927.9	24.5
0°-40°	1518.5	40.1
0°-60°	2709.2	71.5
0°-90°	3646.4	96.2
90°-120°	141.6	3.7
90°-150°	143.8	3.8
90°-180°	144.0	3.8
0°-180°	3790.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1191	1193	1198	1198	1198	113
15°	1141	1145	1151	1154	1154	322
25°	1051	1055	1065	1071	1073	484
35°	927	932	945	955	960	580
45°	778	784	800	816	824	601
55°	609	616	639	666	676	542
65°	418	432	470	508	522	412
75°	220	249	302	341	356	233
85°	52	96	150	192	206	59
90°	15	53	106	145	159	9
95°	9	31	79	119	133	7
105°	5	6	39	71	83	5
115°	2	2	9	30	38	2
125°	1	0	0	3	6	1
135°	1	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

TEST NUMBER: P1212236

CATALOG NUMBER: 2VT3-LD5-4-G-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1194.7	1196.5	1201.2	1202.2	1201.2
5°	1190.9	1192.8	1197.5	1198.4	1197.5
7.5°	1182.5	1185.3	1190.0	1191.9	1190.9
10°	1171.3	1174.1	1179.7	1181.6	1181.6
12.5°	1156.4	1160.1	1166.7	1168.5	1169.5
15°	1141.4	1145.2	1150.8	1154.5	1154.5
17.5°	1122.8	1125.6	1133.0	1137.7	1138.6
20°	1100.3	1104.1	1112.5	1118.1	1119.0
22.5°	1076.1	1080.7	1089.1	1095.7	1096.6
25°	1050.8	1054.6	1064.9	1071.4	1073.3
27.5°	1022.8	1026.6	1037.8	1044.3	1047.1
30°	992.9	997.6	1008.8	1018.2	1020.0
32.5°	960.2	965.8	977.1	986.4	990.1
35°	926.6	932.2	945.3	954.6	960.2
37.5°	891.1	896.7	909.8	922.9	928.5
40°	856.6	861.2	874.3	887.4	893.0
42.5°	817.3	823.9	837.9	853.8	861.2
45°	778.1	783.7	799.6	816.4	823.9
47.5°	739.8	745.4	761.3	779.0	787.5
50°	695.9	701.5	722.1	742.6	752.0
52.5°	652.0	658.6	680.0	705.3	714.6
55°	609.1	615.6	638.9	666.0	676.3
57.5°	558.5	571.6	596.8	626.8	640.8
60°	514.6	524.9	553.9	586.6	599.6
62.5°	465.1	478.2	511.8	547.3	560.4
65°	417.5	432.4	469.8	508.1	522.1
67.5°	368.0	383.9	428.7	467.0	479.1
70°	315.7	339.0	386.7	424.0	438.0
72.5°	269.0	293.3	342.8	382.0	399.8
75°	220.4	249.4	301.7	340.9	355.9
77.5°	171.9	206.4	262.5	299.8	316.6
80°	129.8	166.3	221.4	260.6	274.6
82.5°	85.9	128.9	184.0	224.2	239.1
85°	52.3	96.2	150.4	191.5	205.5
87.5°	26.2	70.0	125.2	164.4	180.3
90°	14.9	53.2	105.5	144.8	158.8
92.5°	12.1	41.1	92.5	130.8	145.7
95°	9.3	30.8	79.4	118.6	132.6
97.5°	7.5	22.4	69.1	106.5	120.5
100°	6.5	15.9	57.9	94.3	108.3
102.5°	5.6	10.3	48.6	82.2	95.3
105°	4.7	6.5	39.2	71.0	83.1
107.5°	3.7	3.7	29.9	59.8	71.0
110°	2.8	2.8	21.5	48.6	60.7



TEST NUMBER: P1212236

CATALOG NUMBER: 2VT3-LD5-4-G-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	2.8	14.9	39.2	48.6
115°	1.9	1.9	9.3	29.9	38.3
117.5°	1.9	1.9	4.7	21.5	29.0
120°	0.9	0.9	1.9	14.0	20.5
122.5°	0.9	0.9	0.9	7.5	13.1
125°	0.9	0.0	0.0	2.8	6.5
127.5°	0.0	0.0	0.0	0.0	1.9
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.9	0.0	0.0	0.0	0.0
135°	0.9	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)