

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: P1212233

Luminaire Tested: 2VT3-LD5-3-G-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212233
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-LD5-3-G-UNV-L830-CD1-U
Description: 2FT VT3 GENRAL APPLICATION, 3000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

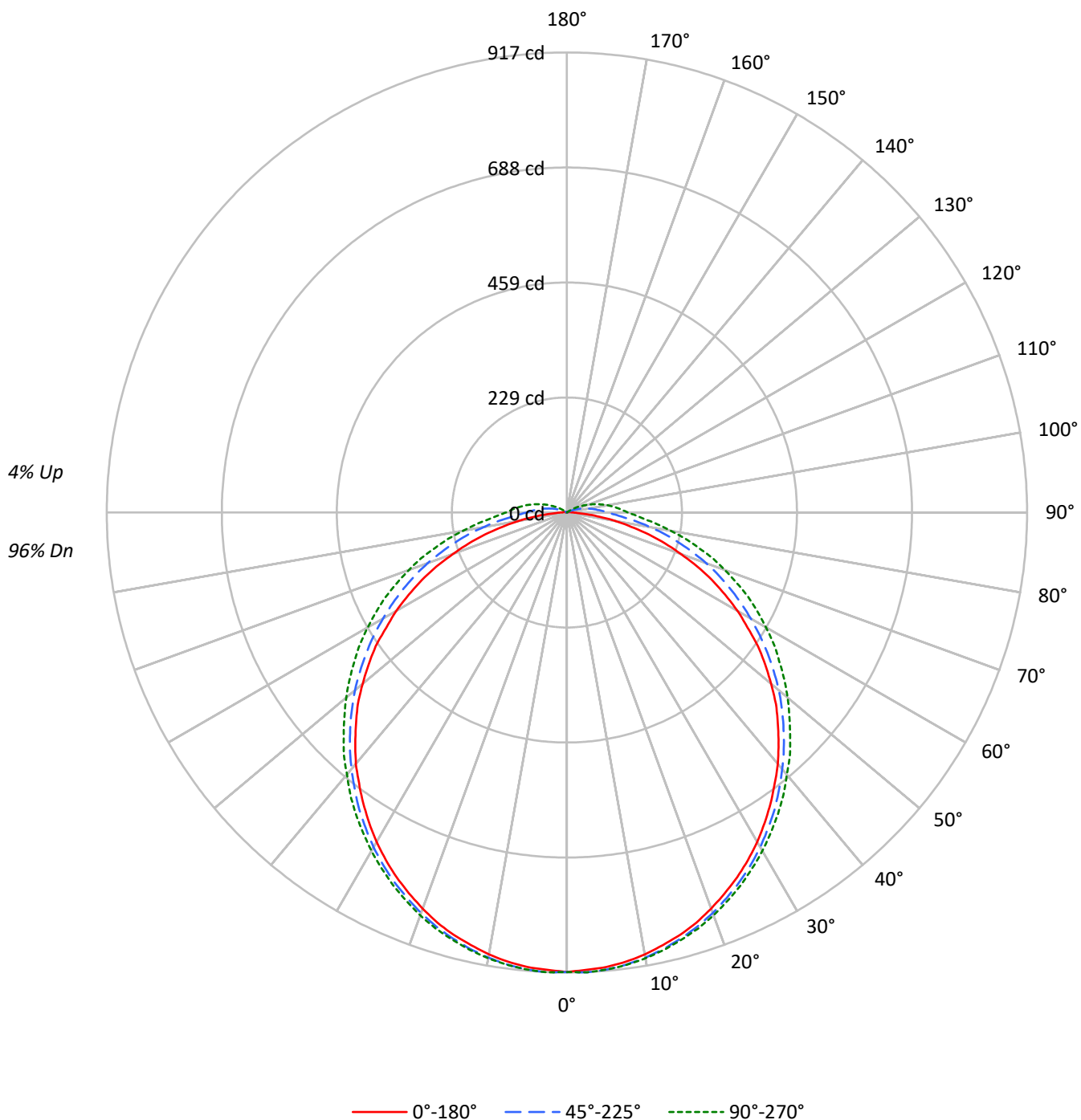
Lumens per Lamp: N/A
Luminaire Lumens: 2894.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 23.9
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	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°	11830	11830	11830
5°	11279	9990	9729
10°	10745	8583	8214
15°	10229	7474	7061
20°	9710	6570	6151
25°	9202	5806	5393
30°	8695	5145	4755
35°	8176	4561	4204
40°	7675	4032	3712
45°	7137	3557	3283
50°	6589	3125	2900
55°	6006	2713	2544
60°	5338	2325	2219
65°	4604	1965	1916
70°	3746	1624	1606
75°	2853	1282	1313
80°	1866	959	1028
85°	853	670	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	3.0
10°-20°	247.7	8.6
20°-30°	374.2	12.9
30°-40°	451.0	15.6
40°-50°	471.9	16.3
50°-60°	437.5	15.1
60°-70°	354.9	12.3
70°-80°	238.6	8.2
80°-90°	122.3	4.2
90°-100°	63.2	2.2
100°-110°	32.8	1.1
110°-120°	12.1	0.4
120°-130°	1.7	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°	708.6	24.5
0°-40°	1159.6	40.1
0°-60°	2068.9	71.5
0°-90°	2784.7	96.2
90°-120°	108.1	3.7
90°-150°	109.8	3.8
90°-180°	110.0	3.8
0°-180°	2894.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	910	911	914	915	914	86
15°	872	874	879	882	882	246
25°	802	805	813	818	820	370
35°	708	712	722	729	733	443
45°	594	598	611	623	629	459
55°	465	470	488	509	516	414
65°	319	330	359	388	399	315
75°	168	190	230	260	272	178
85°	40	74	115	146	157	45
90°	11	41	81	111	121	7
95°	7	24	61	91	101	5
105°	4	5	30	54	64	4
115°	1	1	7	23	29	2
125°	1	0	0	2	5	0
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

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.9	915.9	915.9	915.9	915.9
2.5°	912.3	913.7	917.4	918.0	917.4
5°	909.5	910.9	914.5	915.2	914.5
7.5°	903.1	905.2	908.8	910.2	909.5
10°	894.5	896.6	900.9	902.3	902.3
12.5°	883.1	886.0	890.9	892.3	893.1
15°	871.7	874.5	878.8	881.7	881.7
17.5°	857.4	859.6	865.3	868.8	869.6
20°	840.3	843.1	849.6	853.9	854.6
22.5°	821.7	825.3	831.7	836.8	837.4
25°	802.5	805.4	813.2	818.2	819.6
27.5°	781.1	783.9	792.5	797.5	799.6
30°	758.3	761.9	770.4	777.6	779.0
32.5°	733.3	737.6	746.2	753.3	756.2
35°	707.6	711.9	721.9	729.0	733.3
37.5°	680.5	684.8	694.8	704.8	709.1
40°	654.1	657.7	667.7	677.6	681.9
42.5°	624.2	629.1	639.9	652.0	657.7
45°	594.2	598.5	610.6	623.4	629.1
47.5°	565.0	569.3	581.3	595.0	601.3
50°	531.4	535.7	551.4	567.1	574.2
52.5°	497.9	502.9	519.3	538.5	545.7
55°	465.1	470.1	487.9	508.6	516.4
57.5°	426.6	436.6	455.8	478.7	489.3
60°	393.0	400.9	423.0	447.9	457.9
62.5°	355.2	365.2	390.9	418.0	428.0
65°	318.9	330.3	358.8	388.1	398.7
67.5°	281.0	293.2	327.5	356.7	365.9
70°	241.1	258.9	295.3	323.8	334.6
72.5°	205.5	224.0	261.8	291.8	305.3
75°	168.3	190.4	230.4	260.4	271.8
77.5°	131.2	157.7	200.4	229.0	241.8
80°	99.2	126.9	169.1	199.0	209.7
82.5°	65.7	98.4	140.6	171.2	182.6
85°	40.0	73.5	114.9	146.3	156.9
87.5°	20.0	53.5	95.5	125.5	137.7
90°	11.4	40.6	80.6	110.6	121.2
92.5°	9.2	31.4	70.6	99.8	111.2
95°	7.1	23.5	60.6	90.6	101.3
97.5°	5.7	17.1	52.8	81.4	92.0
100°	5.0	12.1	44.3	72.0	82.8
102.5°	4.3	7.8	37.1	62.8	72.8
105°	3.5	5.0	30.0	54.2	63.5
107.5°	2.9	2.9	22.8	45.7	54.2
110°	2.1	2.1	16.4	37.1	46.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	2.1	11.4	30.0	37.1
115°	1.4	1.4	7.1	22.8	29.2
117.5°	1.4	1.4	3.5	16.4	22.1
120°	0.7	0.7	1.4	10.7	15.7
122.5°	0.7	0.7	0.7	5.7	10.0
125°	0.7	0.0	0.0	2.1	5.0
127.5°	0.0	0.0	0.0	0.0	1.4
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.7	0.0	0.0	0.0	0.0
135°	0.7	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)