

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: P1212230

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212230
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-LD5-2-G-UNV-L830-CD1-U
Description: 2FT VT3 GENRAL APPLICATION, 2000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

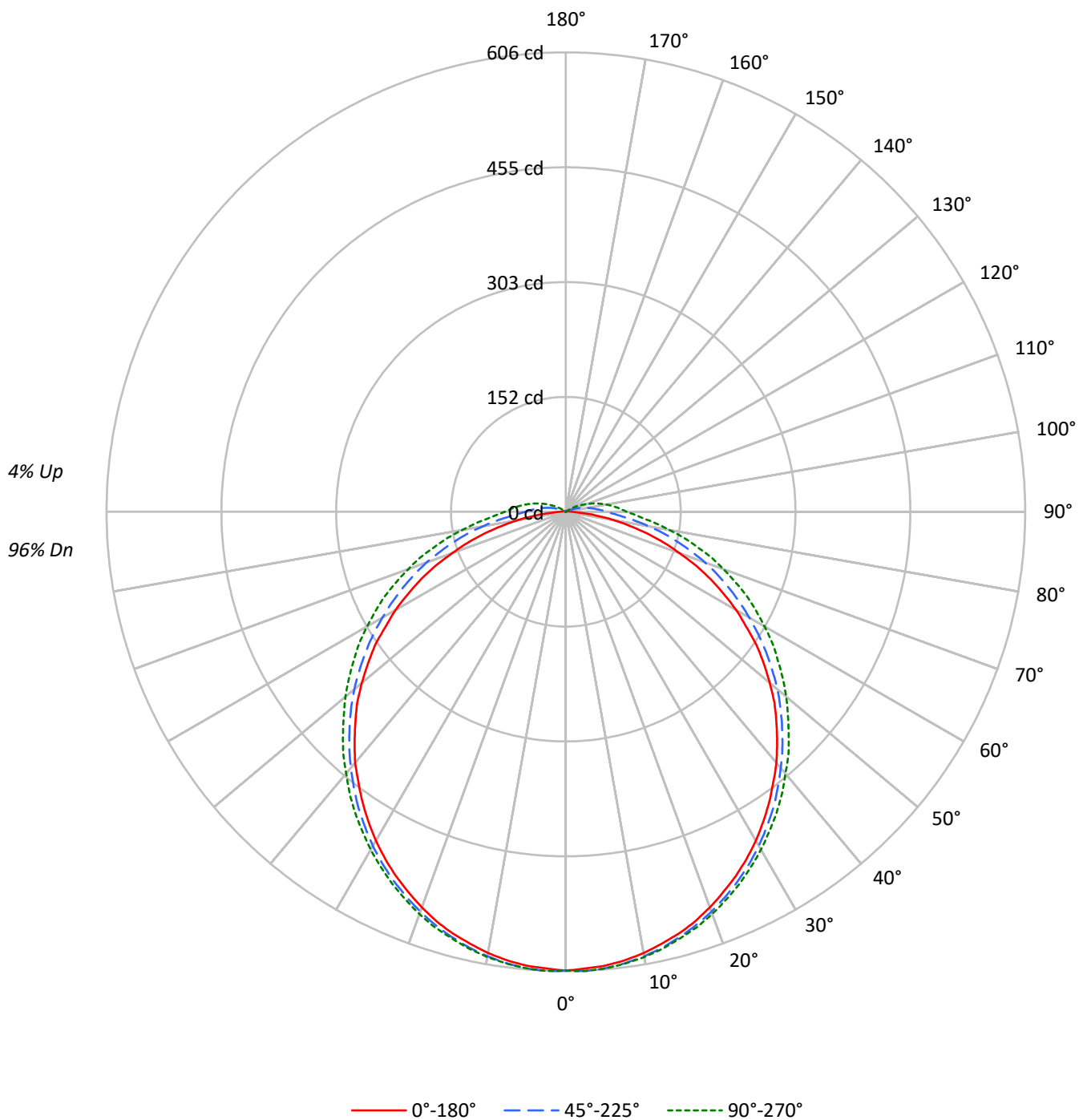
Lumens per Lamp: N/A
Luminaire Lumens: 1912.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

Input Watts (W): 15.7
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: P1212230

CATALOG NUMBER: 2VT3-LD5-2-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°	7818	7818	7818
5°	7453	6603	6430
10°	7101	5673	5429
15°	6760	4940	4665
20°	6418	4341	4065
25°	6081	3837	3564
30°	5746	3400	3142
35°	5404	3014	2779
40°	5072	2664	2453
45°	4717	2350	2170
50°	4354	2065	1916
55°	3970	1792	1682
60°	3527	1536	1467
65°	3042	1298	1266
70°	2475	1073	1061
75°	1885	847	868
80°	1234	634	679
85°	563	443	520

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4717 cd/sqm

TEST NUMBER: P1212230

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.0
10°-20°	163.7	8.6
20°-30°	247.3	12.9
30°-40°	298.1	15.6
40°-50°	311.8	16.3
50°-60°	289.1	15.1
60°-70°	234.5	12.3
70°-80°	157.6	8.2
80°-90°	80.8	4.2
90°-100°	41.8	2.2
100°-110°	21.7	1.1
110°-120°	8.0	0.4
120°-130°	1.1	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°	468.3	24.5
0°-40°	766.4	40.1
0°-60°	1367.3	71.5
0°-90°	1840.2	96.2
90°-120°	71.4	3.7
90°-150°	72.6	3.8
90°-180°	73.0	3.8
0°-180°	1912.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	601	602	604	605	604	57
15°	576	578	581	583	583	162
25°	530	532	537	541	542	244
35°	468	470	477	482	485	293
45°	393	396	404	412	416	303
55°	307	311	322	336	341	274
65°	211	218	237	256	264	208
75°	111	126	152	172	180	118
85°	26	49	76	97	104	30
90°	8	27	53	73	80	5
95°	5	16	40	60	67	4
105°	2	3	20	36	42	2
115°	1	1	5	15	19	1
125°	0	0	0	1	3	0
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

TEST NUMBER: P1212230

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.3	605.3	605.3	605.3	605.3
2.5°	602.9	603.8	606.3	606.7	606.3
5°	601.0	602.0	604.4	604.9	604.4
7.5°	596.8	598.2	600.6	601.5	601.0
10°	591.1	592.5	595.4	596.4	596.4
12.5°	583.6	585.5	588.8	589.7	590.2
15°	576.1	578.0	580.8	582.6	582.6
17.5°	566.7	568.1	571.8	574.2	574.7
20°	555.4	557.2	561.4	564.3	564.8
22.5°	543.0	545.5	549.7	552.9	553.4
25°	530.3	532.2	537.4	540.7	541.6
27.5°	516.2	518.1	523.7	527.1	528.5
30°	501.1	503.4	509.1	513.8	514.8
32.5°	484.7	487.5	493.1	497.8	499.7
35°	467.7	470.5	477.1	481.8	484.7
37.5°	449.7	452.5	459.2	465.8	468.6
40°	432.3	434.7	441.2	447.9	450.7
42.5°	412.5	415.8	422.8	430.9	434.7
45°	392.7	395.5	403.5	412.0	415.8
47.5°	373.3	376.2	384.2	393.1	397.4
50°	351.2	354.0	364.4	374.8	379.5
52.5°	329.0	332.3	343.2	355.9	360.6
55°	307.4	310.6	322.4	336.1	341.3
57.5°	281.9	288.5	301.2	316.3	323.4
60°	259.7	265.0	279.5	296.1	302.6
62.5°	234.8	241.3	258.3	276.3	282.8
65°	210.7	218.3	237.1	256.5	263.5
67.5°	185.8	193.7	216.4	235.7	241.8
70°	159.3	171.1	195.2	214.0	221.1
72.5°	135.8	148.0	173.0	192.8	201.7
75°	111.2	125.9	152.2	172.0	179.6
77.5°	86.8	104.1	132.4	151.3	159.8
80°	65.6	83.9	111.7	131.5	138.6
82.5°	43.3	65.1	92.8	113.1	120.7
85°	26.4	48.6	75.9	96.7	103.7
87.5°	13.2	35.4	63.1	82.9	91.0
90°	7.6	26.9	53.2	73.0	80.1
92.5°	6.2	20.7	46.7	66.0	73.5
95°	4.7	15.6	40.1	59.9	67.0
97.5°	3.7	11.3	34.8	53.7	60.8
100°	3.3	8.0	29.2	47.6	54.6
102.5°	2.8	5.2	24.5	41.5	48.1
105°	2.3	3.3	19.8	35.9	41.9
107.5°	1.9	1.9	15.1	30.2	35.9
110°	1.4	1.4	10.8	24.5	30.6

TEST NUMBER: P1212230

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	7.6	19.8	24.5
115°	0.9	0.9	4.7	15.1	19.3
117.5°	0.9	0.9	2.3	10.8	14.6
120°	0.5	0.5	0.9	7.1	10.4
122.5°	0.5	0.5	0.5	3.7	6.6
125°	0.5	0.0	0.0	1.4	3.3
127.5°	0.0	0.0	0.0	0.0	0.9
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.5	0.0	0.0	0.0	0.0
135°	0.5	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)