

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237849

Luminaire Tested: **8VT2-LD5-22-DR-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-22-DR-UNV-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
8FT FIXTURE
Light Source: (448) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21514.0 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

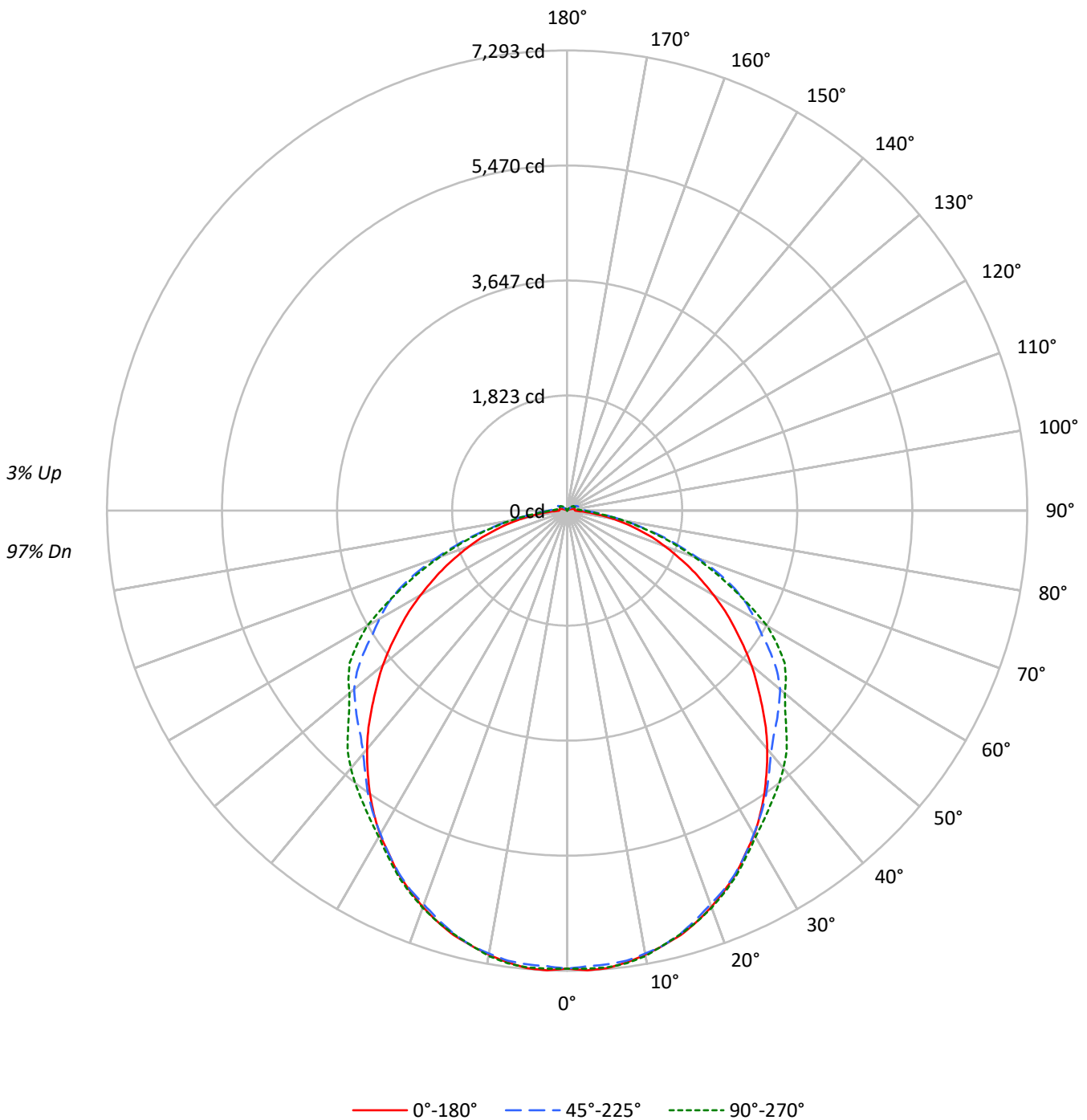
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18753	18753	18753
5°	18846	18323	18312
10°	18682	17911	17759
15°	18526	17404	17060
20°	18243	16739	16420
25°	17910	16157	15710
30°	17492	15429	14936
35°	16960	14756	14437
40°	16361	14007	14053
45°	15637	13739	13452
50°	14971	13649	12955
55°	14183	13077	12834
60°	13394	12378	11988
65°	12595	11674	10222
70°	11773	9893	8451
75°	10829	7886	6546
80°	9605	5664	4669
85°	7821	3878	2819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.5	3.2
10°-20°	1962.9	9.1
20°-30°	2925.6	13.6
30°-40°	3461.2	16.1
40°-50°	3603.4	16.7
50°-60°	3389.9	15.8
60°-70°	2716.3	12.6
70°-80°	1578.1	7.3
80°-90°	556.6	2.6
90°-100°	215.0	1.0
100°-110°	163.4	0.8
110°-120°	124.3	0.6
120°-130°	75.8	0.4
130°-140°	37.0	0.2
140°-150°	12.0	0.1
150°-160°	1.8	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	5578.0	25.9
0°-40°	9039.2	42.0
0°-60°	16032.6	74.5
0°-90°	20883.6	97.1
90°-120°	502.7	2.3
90°-150°	627.6	2.9
90°-180°	630.0	2.9
0°-180°	21514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7259	7259	7259	7259	7259	
5°	7280	7249	7220	7283	7267	690
15°	6964	6988	6943	6956	6948	1961
25°	6342	6363	6329	6376	6368	2916
35°	5453	5466	5498	5592	5646	3408
45°	4366	4410	4700	4930	4909	3374
55°	3239	3430	3940	4109	4206	2901
65°	2149	2687	2933	2907	2868	2129
75°	1166	1616	1527	1493	1472	1240
85°	324	494	504	486	458	345
90°	123	267	290	274	256	75
95°	126	196	220	191	175	101
105°	102	146	193	160	136	106
115°	52	94	167	149	131	53
125°	21	34	110	123	118	20
135°	8	8	52	81	86	7
145°	5	3	10	34	42	3
155°	3	3	3	3	5	1
165°	3	3	3	3	0	1
175°	5	5	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7259.4	7259.4	7259.4	7259.4	7259.4
2.5°	7293.4	7267.3	7228.1	7280.3	7267.3
5°	7280.3	7249.0	7220.2	7283.0	7267.3
7.5°	7222.8	7217.6	7196.7	7249.0	7235.9
10°	7147.0	7162.7	7128.7	7170.6	7167.9
12.5°	7058.1	7097.4	7058.1	7068.6	7052.9
15°	6964.0	6987.6	6943.1	6956.2	6948.4
17.5°	6833.3	6867.3	6794.1	6859.5	6833.3
20°	6684.3	6718.3	6642.5	6715.7	6697.4
22.5°	6517.0	6548.4	6501.3	6553.6	6540.5
25°	6341.9	6362.8	6328.8	6375.9	6368.0
27.5°	6124.9	6174.6	6130.1	6187.6	6164.1
30°	5931.5	5949.8	5918.4	5989.0	5970.7
32.5°	5698.8	5711.9	5711.9	5774.6	5806.0
35°	5453.1	5466.1	5497.5	5591.6	5646.5
37.5°	5194.3	5223.0	5251.8	5437.4	5497.5
40°	4932.9	4953.8	5024.4	5293.6	5332.8
42.5°	4661.0	4681.9	4844.0	5139.4	5152.4
45°	4365.6	4410.0	4700.2	4930.2	4909.3
47.5°	4085.9	4140.8	4553.8	4663.6	4684.5
50°	3814.0	3876.8	4407.4	4449.2	4504.1
52.5°	3521.2	3641.5	4198.3	4255.8	4370.8
55°	3238.9	3429.7	3939.5	4109.4	4206.1
57.5°	2969.6	3218.0	3657.2	3921.2	3947.3
60°	2682.1	3037.6	3432.4	3657.2	3659.8
62.5°	2407.6	2865.1	3210.1	3296.4	3259.8
65°	2148.8	2687.3	2933.1	2906.9	2867.7
67.5°	1884.8	2459.9	2590.6	2533.1	2506.9
70°	1644.3	2214.2	2208.9	2159.3	2143.6
72.5°	1414.2	1908.3	1856.0	1811.6	1798.5
75°	1165.9	1615.5	1526.7	1492.7	1471.8
77.5°	941.1	1312.3	1192.0	1179.0	1163.3
80°	718.9	1001.2	920.2	922.8	907.1
82.5°	496.7	718.9	674.4	669.2	650.9
85°	324.2	494.1	504.5	486.2	457.5
87.5°	175.1	345.1	368.6	355.5	334.6
90°	122.9	266.6	290.2	274.5	256.2
92.5°	122.9	224.8	245.7	222.2	206.5
95°	125.5	196.1	219.6	190.8	175.1
97.5°	125.5	177.8	203.9	172.5	154.2
100°	120.2	167.3	198.7	164.7	146.4
102.5°	112.4	156.8	196.1	159.5	141.2
105°	102.0	146.4	193.4	159.5	135.9
107.5°	88.9	135.9	190.8	156.8	135.9
110°	75.8	122.9	185.6	156.8	133.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.4	109.8	177.8	154.2	133.3
115°	52.3	94.1	167.3	149.0	130.7
117.5°	41.8	78.4	154.2	143.8	128.1
120°	34.0	62.7	141.2	138.5	125.5
122.5°	26.1	47.1	125.5	130.7	120.2
125°	20.9	34.0	109.8	122.9	117.6
127.5°	15.7	23.5	94.1	115.0	109.8
130°	13.1	13.1	78.4	104.6	102.0
132.5°	10.5	10.5	65.4	94.1	96.7
135°	7.8	7.8	52.3	81.0	86.3
137.5°	7.8	5.2	39.2	70.6	75.8
140°	5.2	5.2	28.8	57.5	62.7
142.5°	5.2	5.2	18.3	47.1	52.3
145°	5.2	2.6	10.5	34.0	41.8
147.5°	5.2	2.6	5.2	23.5	31.4
150°	2.6	2.6	2.6	15.7	20.9
152.5°	2.6	2.6	2.6	7.8	10.5
155°	2.6	2.6	2.6	2.6	5.2
157.5°	2.6	2.6	2.6	2.6	0.0
160°	2.6	2.6	2.6	2.6	0.0
162.5°	2.6	2.6	2.6	2.6	0.0
165°	2.6	2.6	2.6	2.6	0.0
167.5°	5.2	2.6	2.6	2.6	0.0
170°	5.2	2.6	2.6	2.6	0.0
172.5°	5.2	5.2	2.6	2.6	0.0
175°	5.2	5.2	2.6	2.6	2.6
177.5°	5.2	5.2	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)