

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: P237733

Luminaire Tested: **2VT2-LD5-2-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-2-DR100-W-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2203.1 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.54 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

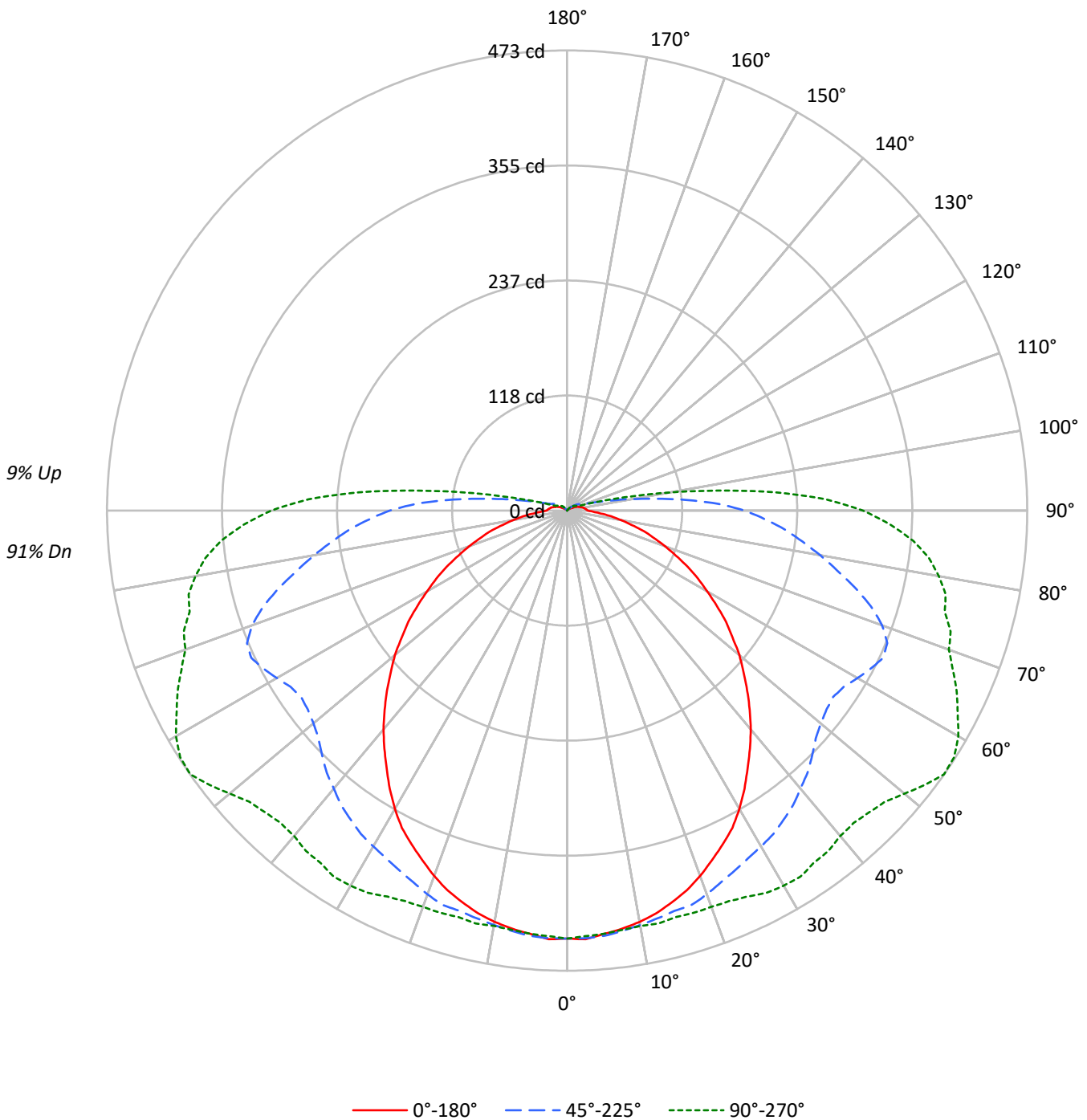
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	102	95	89	83	98	92	86	81	86	81	77	80	76	73	75	72	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	61	57	63	58	54	51
3	81	69	59	51	78	66	57	50	62	54	48	58	51	46	54	48	44	41
4	74	60	50	42	71	58	48	41	54	46	39	50	43	38	47	41	36	33
5	67	53	43	35	65	51	42	34	48	40	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	30	43	35	29	40	33	28	38	32	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	39	29	23	51	37	29	23	35	28	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	20	31	24	19	29	23	18	16
10	46	32	24	18	45	32	24	18	30	23	18	28	22	17	27	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4546	4546	4546
5°	4498	4438	4401
10°	4442	4316	4296
15°	4363	4227	4247
20°	4270	4172	4251
25°	4159	4095	4320
30°	4037	4069	4455
35°	3862	4063	4521
40°	3711	4042	4603
45°	3542	4028	4809
50°	3392	4057	5207
55°	3222	4244	5771
60°	3020	4727	6083
65°	2853	5385	6302
70°	2653	5773	6586
75°	2509	5849	7147
80°	2301	5909	7988
85°	2168	6137	8805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	1.9
10°-20°	120.5	5.5
20°-30°	188.9	8.6
30°-40°	241.7	11.0
40°-50°	273.9	12.4
50°-60°	301.8	13.7
60°-70°	312.7	14.2
70°-80°	291.9	13.3
80°-90°	236.3	10.7
90°-100°	134.0	6.1
100°-110°	37.2	1.7
110°-120°	12.9	0.6
120°-130°	6.8	0.3
130°-140°	2.7	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	351.1	15.9
0°-40°	592.7	26.9
0°-60°	1168.4	53.0
0°-90°	2009.3	91.2
90°-120°	184.0	8.4
90°-150°	193.8	8.8
90°-180°	194.0	8.8
0°-180°	2203.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	440	440	440	440	440	
5°	437	438	439	438	437	41
15°	417	421	426	432	432	118
25°	378	388	408	431	438	174
35°	323	343	388	429	442	203
45°	262	293	356	414	439	202
55°	199	237	334	441	473	178
65°	137	192	358	427	442	135
75°	82	182	306	377	402	86
85°	35	129	225	323	357	33
90°	21	96	182	271	304	12
95°	19	65	124	189	215	15
105°	14	23	35	39	40	15
115°	8	11	16	14	12	8
125°	3	4	10	10	8	3
135°	1	1	4	5	5	1
145°	1	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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CATALOG NUMBER: 2VT2-LD5-2-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	439.9	439.9	439.9	439.9	439.9
2.5°	441.0	441.0	439.9	438.8	437.8
5°	436.7	437.8	438.8	437.8	436.7
7.5°	433.5	435.7	435.7	436.7	434.6
10°	429.3	431.4	432.5	434.6	433.5
12.5°	424.0	426.1	429.3	432.5	434.6
15°	416.6	420.8	426.1	432.5	432.5
17.5°	409.2	413.4	425.1	431.4	433.5
20°	399.6	406.0	419.8	430.4	433.5
22.5°	389.0	397.5	413.4	430.4	434.6
25°	378.4	388.0	408.1	431.4	437.8
27.5°	367.8	377.4	402.8	430.4	443.1
30°	354.0	367.8	398.6	430.4	445.2
32.5°	339.2	356.2	394.3	430.4	446.3
35°	323.3	343.4	388.0	429.3	442.0
37.5°	308.5	330.7	381.6	424.0	441.0
40°	293.6	318.0	373.1	419.8	436.7
42.5°	277.7	305.3	365.7	414.5	435.7
45°	261.8	292.6	356.2	414.5	438.8
47.5°	245.9	278.8	346.6	416.6	443.1
50°	231.1	265.0	340.3	420.8	452.6
52.5°	214.1	251.2	336.0	431.4	463.2
55°	199.3	237.4	333.9	441.0	472.8
57.5°	182.3	224.7	337.1	447.3	471.7
60°	166.4	210.9	344.5	445.2	464.3
62.5°	151.6	200.3	351.9	438.8	452.6
65°	136.7	191.9	358.3	427.2	442.0
67.5°	120.8	185.5	356.2	414.5	429.3
70°	107.1	183.4	344.5	399.6	417.6
72.5°	93.3	183.4	327.5	385.8	413.4
75°	81.6	182.3	306.3	377.4	401.7
77.5°	67.8	178.1	284.1	367.8	398.6
80°	56.2	165.4	263.9	353.0	388.0
82.5°	45.6	148.4	243.8	339.2	375.2
85°	35.0	129.3	224.7	323.3	357.2
87.5°	26.5	111.3	203.5	297.9	332.8
90°	21.2	96.5	182.3	271.4	304.2
92.5°	20.1	80.6	155.8	234.3	266.1
95°	19.1	64.7	124.0	188.7	215.2
97.5°	18.0	49.8	92.2	137.8	156.9
100°	17.0	38.2	67.8	94.3	106.0
102.5°	15.9	29.7	48.8	61.5	65.7
105°	13.8	23.3	35.0	39.2	40.3
107.5°	12.7	18.0	26.5	25.4	24.4
110°	11.7	15.9	21.2	18.0	15.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	12.7	18.0	14.8	12.7
115°	8.5	10.6	15.9	13.8	11.7
117.5°	6.4	9.5	14.8	12.7	10.6
120°	5.3	7.4	12.7	11.7	9.5
122.5°	4.2	6.4	11.7	10.6	9.5
125°	3.2	4.2	9.5	9.5	8.5
127.5°	3.2	3.2	8.5	8.5	7.4
130°	2.1	2.1	6.4	7.4	7.4
132.5°	2.1	1.1	5.3	6.4	6.4
135°	1.1	1.1	4.2	5.3	5.3
137.5°	1.1	1.1	2.1	4.2	4.2
140°	1.1	0.0	1.1	3.2	3.2
142.5°	1.1	0.0	0.0	2.1	1.1
145°	1.1	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)