

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: P237731

Luminaire Tested: **2VRVT2-LD5-2-DR100-W-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237731
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: 2VRVT2-LD5-2-DR100-W-UNV-L835-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (56) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2078.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

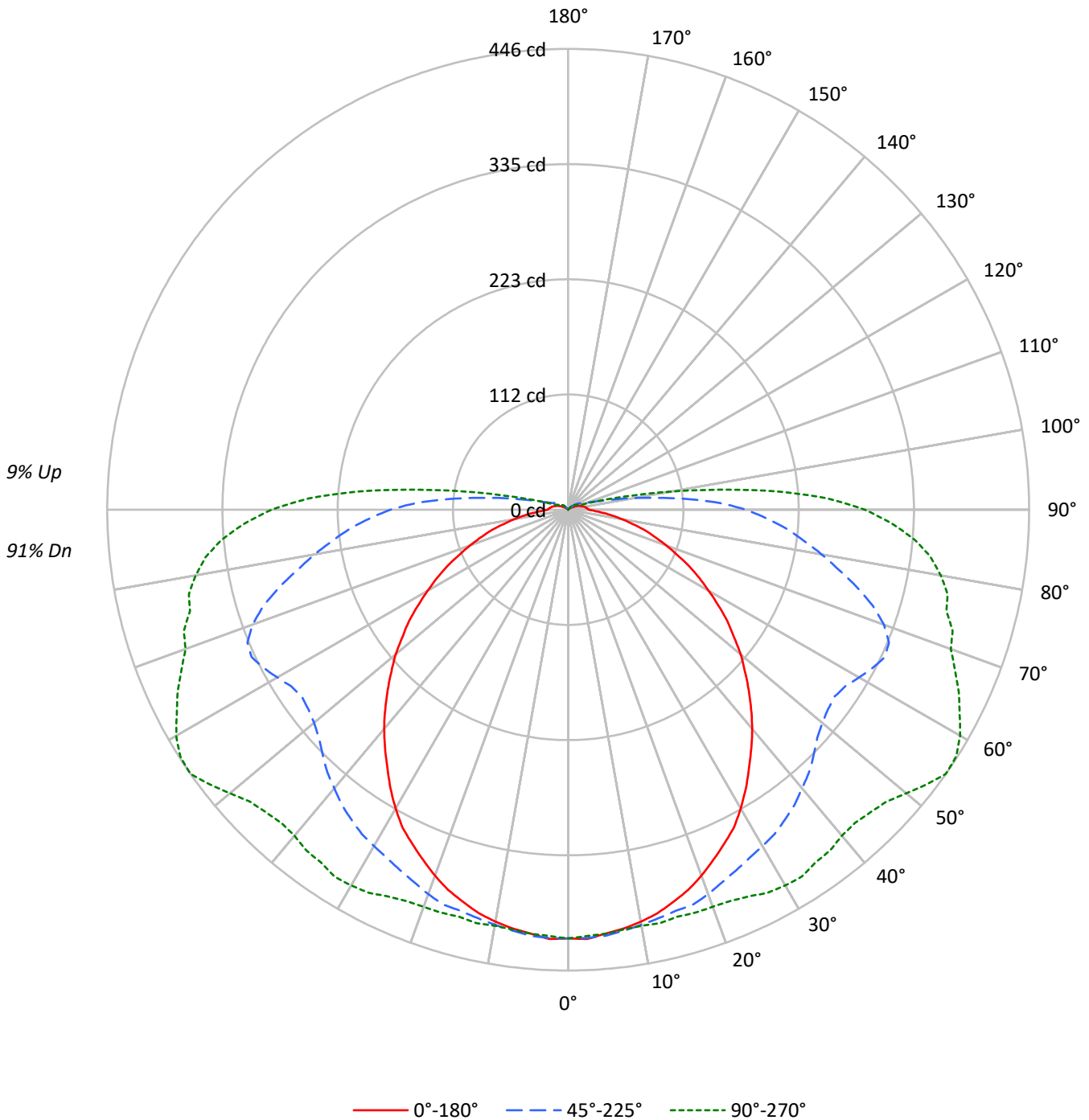
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4287	4287	4287
5°	4243	4186	4151
10°	4189	4070	4052
15°	4115	3987	4006
20°	4027	3935	4010
25°	3923	3862	4074
30°	3808	3838	4202
35°	3642	3832	4264
40°	3501	3812	4342
45°	3342	3799	4536
50°	3199	3826	4912
55°	3040	4002	5442
60°	2850	4458	5737
65°	2692	5079	5944
70°	2502	5444	6212
75°	2367	5519	6741
80°	2170	5576	7533
85°	2044	5791	8304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	1.9
10°-20°	113.7	5.5
20°-30°	178.2	8.6
30°-40°	227.9	11.0
40°-50°	258.3	12.4
50°-60°	284.6	13.7
60°-70°	295.0	14.2
70°-80°	275.4	13.3
80°-90°	222.9	10.7
90°-100°	126.4	6.1
100°-110°	35.0	1.7
110°-120°	12.1	0.6
120°-130°	6.4	0.3
130°-140°	2.5	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°	331.1	15.9
0°-40°	559.0	26.9
0°-60°	1102.0	53.0
0°-90°	1895.2	91.2
90°-120°	173.6	8.4
90°-150°	182.8	8.8
90°-180°	183.0	8.8
0°-180°	2078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	412	413	414	413	412	39
15°	393	397	402	408	408	111
25°	357	366	385	407	413	164
35°	305	324	366	405	417	191
45°	247	276	336	391	414	191
55°	188	224	315	416	446	168
65°	129	181	338	403	417	127
75°	77	172	289	356	379	81
85°	33	122	212	305	337	31
90°	20	91	172	256	287	12
95°	18	61	117	178	203	14
105°	13	22	33	37	38	14
115°	8	10	15	13	11	8
125°	3	4	9	9	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.9	414.9	414.9	414.9	414.9
2.5°	415.9	415.9	414.9	413.9	412.9
5°	411.9	412.9	413.9	412.9	411.9
7.5°	408.9	410.9	410.9	411.9	409.9
10°	404.9	406.9	407.9	409.9	408.9
12.5°	399.9	401.9	404.9	407.9	409.9
15°	392.9	396.9	401.9	407.9	407.9
17.5°	385.9	389.9	400.9	406.9	408.9
20°	376.9	382.9	395.9	405.9	408.9
22.5°	366.9	374.9	389.9	405.9	409.9
25°	356.9	365.9	384.9	406.9	412.9
27.5°	346.9	355.9	379.9	405.9	417.9
30°	333.9	346.9	375.9	405.9	419.9
32.5°	319.9	335.9	371.9	405.9	420.9
35°	304.9	323.9	365.9	404.9	416.9
37.5°	291.0	311.9	359.9	399.9	415.9
40°	277.0	300.0	351.9	395.9	411.9
42.5°	262.0	288.0	344.9	390.9	410.9
45°	247.0	276.0	335.9	390.9	413.9
47.5°	232.0	263.0	326.9	392.9	417.9
50°	218.0	250.0	320.9	396.9	426.9
52.5°	202.0	237.0	316.9	406.9	436.9
55°	188.0	224.0	314.9	415.9	445.9
57.5°	172.0	212.0	317.9	421.9	444.9
60°	157.0	199.0	324.9	419.9	437.9
62.5°	143.0	189.0	331.9	413.9	426.9
65°	129.0	181.0	337.9	402.9	416.9
67.5°	114.0	175.0	335.9	390.9	404.9
70°	101.0	173.0	324.9	376.9	393.9
72.5°	88.0	173.0	308.9	363.9	389.9
75°	77.0	172.0	289.0	355.9	378.9
77.5°	64.0	168.0	268.0	346.9	375.9
80°	53.0	156.0	249.0	332.9	365.9
82.5°	43.0	140.0	230.0	319.9	353.9
85°	33.0	122.0	212.0	304.9	336.9
87.5°	25.0	105.0	192.0	281.0	313.9
90°	20.0	91.0	172.0	256.0	287.0
92.5°	19.0	76.0	147.0	221.0	251.0
95°	18.0	61.0	117.0	178.0	203.0
97.5°	17.0	47.0	87.0	130.0	148.0
100°	16.0	36.0	64.0	89.0	100.0
102.5°	15.0	28.0	46.0	58.0	62.0
105°	13.0	22.0	33.0	37.0	38.0
107.5°	12.0	17.0	25.0	24.0	23.0
110°	11.0	15.0	20.0	17.0	15.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.0	12.0	17.0	14.0	12.0
115°	8.0	10.0	15.0	13.0	11.0
117.5°	6.0	9.0	14.0	12.0	10.0
120°	5.0	7.0	12.0	11.0	9.0
122.5°	4.0	6.0	11.0	10.0	9.0
125°	3.0	4.0	9.0	9.0	8.0
127.5°	3.0	3.0	8.0	8.0	7.0
130°	2.0	2.0	6.0	7.0	7.0
132.5°	2.0	1.0	5.0	6.0	6.0
135°	1.0	1.0	4.0	5.0	5.0
137.5°	1.0	1.0	2.0	4.0	4.0
140°	1.0	0.0	1.0	3.0	3.0
142.5°	1.0	0.0	0.0	2.0	1.0
145°	1.0	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)