

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: P236618

Luminaire Tested: **VRVT4LED-LD5-18-PC-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-PC-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18704.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.13 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

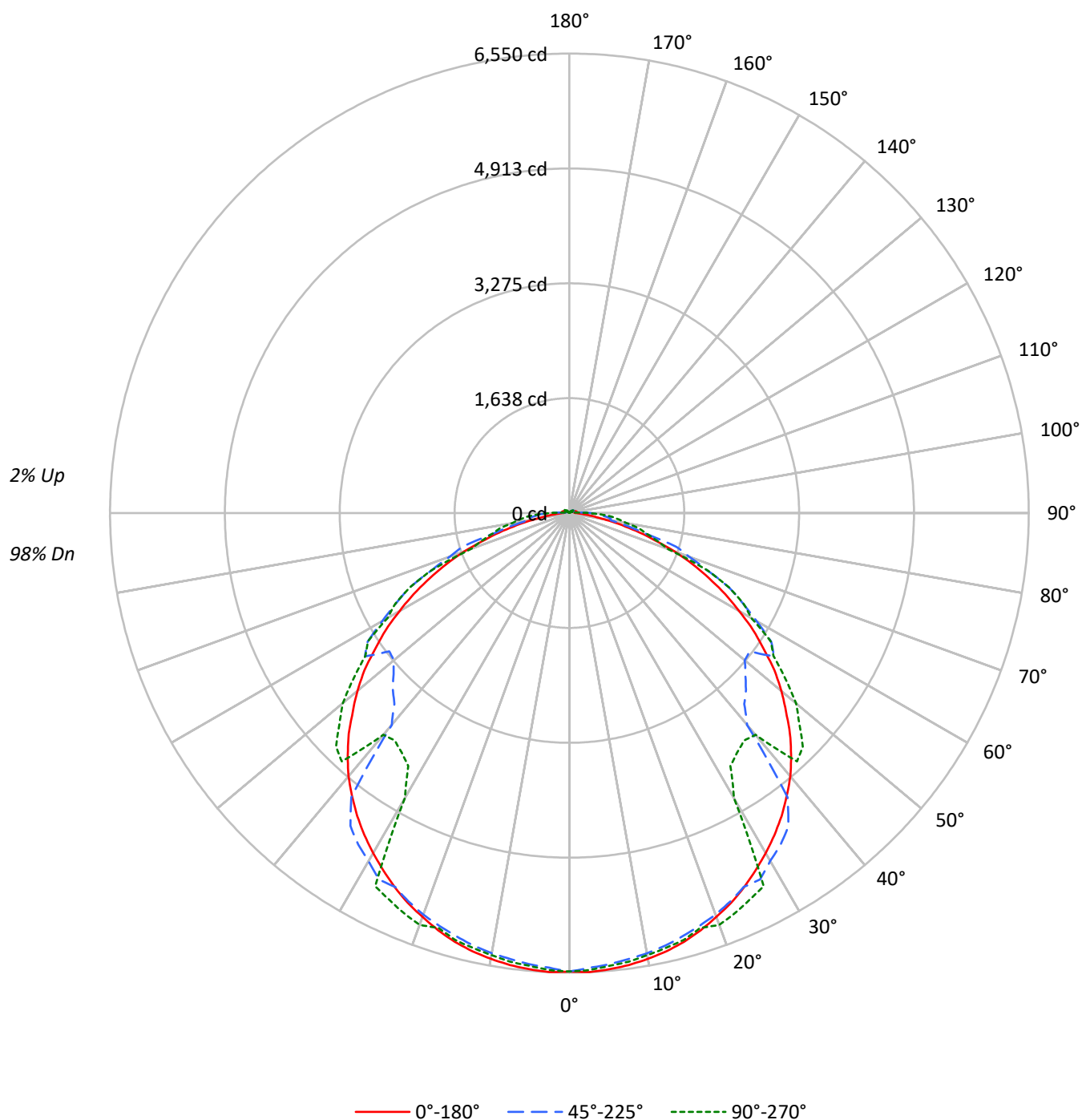
Input Watts (W): 133.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		105	105	105		101	101	101
1	108	103	99	95	105	101	97	93		96	93	90		92	89	87		88	86	84
2	98	90	83	77	96	88	82	76		84	79	74		81	76	72		77	74	71
3	90	79	71	64	87	77	70	64		74	68	62		71	66	61		68	64	60
4	82	70	61	54	80	69	60	54		66	59	53		63	57	52		61	56	51
5	75	63	54	47	73	61	53	47		59	52	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	41		53	46	40		51	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	36		47	40	35		45	39	35
8	60	47	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	35	29	55	42	34	29		41	34	29		40	33	28		38	33	28
10	53	39	32	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16371	16371	16371
5°	16328	15943	15960
10°	16238	15622	15616
15°	16144	15320	15349
20°	15977	15069	15313
25°	15828	14789	15118
30°	15643	14755	11924
35°	15471	14492	10916
40°	15246	10938	11229
45°	14857	10397	13444
50°	14349	10154	12783
55°	13594	11934	11548
60°	12689	11287	10607
65°	11516	10234	9824
70°	9964	8391	6527
75°	7749	5905	5798
80°	5248	3898	5045
85°	3479	4140	4639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.5	3.3
10°-20°	1773.5	9.5
20°-30°	2736.1	14.6
30°-40°	3072.5	16.4
40°-50°	3252.4	17.4
50°-60°	3073.2	16.4
60°-70°	2230.3	11.9
70°-80°	1147.4	6.1
80°-90°	502.2	2.7
90°-100°	124.3	0.7
100°-110°	60.8	0.3
110°-120°	44.5	0.2
120°-130°	38.6	0.2
130°-140°	20.8	0.1
140°-150°	6.8	0.0
150°-160°	2.1	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	5126.1	27.4
0°-40°	8198.7	43.8
0°-60°	14524.3	77.7
0°-90°	18404.2	98.4
90°-120°	229.7	1.2
90°-150°	295.9	1.6
90°-180°	300.0	1.6
0°-180°	18704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6535	6535	6535	6535	6535	
5°	6528	6499	6458	6475	6480	621
15°	6326	6269	6244	6282	6299	1784
25°	5888	5856	5881	6056	6082	2713
35°	5274	5284	5444	4143	4169	3297
45°	4448	4523	3559	4524	4706	3424
55°	3382	3445	3562	3617	3550	3029
65°	2195	1803	2514	2496	2510	2174
75°	982	954	1094	903	1136	1053
85°	205	322	494	568	604	229
90°	89	189	304	287	274	54
95°	87	104	92	76	70	77
105°	92	71	51	44	43	96
115°	48	50	44	30	30	49
125°	24	21	32	78	92	22
135°	11	9	25	42	22	9
145°	6	5	4	16	14	4
155°	5	5	5	3	2	2
165°	5	5	5	4	3	1
175°	6	6	6	5	4	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6535.1	6535.1	6535.1	6535.1	6535.1
2.5°	6549.7	6529.9	6488.3	6509.1	6520.6
5°	6527.8	6498.7	6458.2	6474.8	6480.0
7.5°	6498.7	6466.5	6413.4	6442.6	6449.8
10°	6451.9	6412.4	6371.8	6396.8	6398.9
12.5°	6397.8	6351.0	6315.7	6344.8	6349.0
15°	6326.1	6268.9	6243.9	6282.4	6299.0
17.5°	6233.5	6184.6	6169.0	6227.3	6202.3
20°	6125.4	6084.8	6090.0	6122.2	6246.0
22.5°	6017.2	5975.6	5993.3	6197.1	6172.2
25°	5888.3	5856.0	5881.0	6055.7	6081.7
27.5°	5744.7	5725.0	5886.2	5951.7	5998.5
30°	5597.1	5585.6	5727.1	5747.9	4693.3
32.5°	5440.0	5435.9	5603.3	4414.6	4274.2
35°	5273.6	5284.0	5444.2	4143.2	4169.2
37.5°	5088.5	5139.5	5107.2	4036.1	4088.1
40°	4899.3	4999.1	3941.5	3935.2	4125.5
42.5°	4678.8	4762.0	3691.9	3933.1	4802.5
45°	4447.9	4522.8	3558.7	4523.8	4705.8
47.5°	4187.9	4299.2	3400.7	4454.2	4444.8
50°	3947.7	4074.6	3265.5	4189.0	4218.1
52.5°	3683.5	3812.5	3237.4	3941.5	3884.3
55°	3382.0	3445.4	3561.9	3617.0	3550.4
57.5°	3108.4	2620.7	3411.1	3336.2	3403.8
60°	2798.5	2258.8	3082.4	3111.6	2997.2
62.5°	2503.2	2041.4	2784.0	2746.5	2798.5
65°	2195.4	1803.3	2513.6	2495.9	2510.5
67.5°	1899.0	1556.8	2120.5	2244.2	2126.7
70°	1587.0	1322.8	1814.7	1486.1	1478.8
72.5°	1259.4	1100.3	1595.3	1332.2	1305.2
75°	981.7	953.6	1094.0	902.7	1135.6
77.5°	717.6	906.8	833.0	1026.4	1019.2
80°	488.8	715.5	595.9	774.8	825.7
82.5°	321.3	479.4	594.9	720.7	714.5
85°	204.9	322.4	494.0	567.8	604.2
87.5°	140.4	239.2	422.2	462.8	448.2
90°	89.4	189.3	303.7	287.0	273.5
92.5°	72.8	151.8	177.8	157.0	138.3
95°	87.4	104.0	91.5	75.9	69.7
97.5°	104.0	71.8	62.4	59.3	60.3
100°	107.1	71.8	52.0	44.7	41.6
102.5°	101.9	74.9	51.0	45.8	41.6
105°	91.5	70.7	51.0	43.7	42.6
107.5°	80.1	64.5	52.0	41.6	37.4
110°	68.6	60.3	47.8	46.8	43.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.2	57.2	42.6	37.4	42.6
115°	47.8	49.9	43.7	30.2	30.2
117.5°	40.6	40.6	70.7	28.1	26.0
120°	34.3	32.2	70.7	44.7	27.0
122.5°	28.1	27.0	49.9	95.7	73.8
125°	23.9	20.8	32.2	78.0	91.5
127.5°	19.8	15.6	25.0	47.8	63.4
130°	16.6	12.5	36.4	28.1	40.6
132.5°	13.5	10.4	56.2	20.8	21.8
135°	11.4	9.4	25.0	41.6	21.8
137.5°	9.4	7.3	12.5	82.2	59.3
140°	8.3	6.2	11.4	28.1	70.7
142.5°	6.2	5.2	9.4	13.5	18.7
145°	6.2	5.2	4.2	15.6	13.5
147.5°	5.2	4.2	4.2	18.7	19.8
150°	5.2	4.2	4.2	6.2	17.7
152.5°	5.2	4.2	4.2	3.1	3.1
155°	5.2	5.2	5.2	3.1	2.1
157.5°	5.2	5.2	5.2	3.1	2.1
160°	5.2	5.2	5.2	3.1	2.1
162.5°	5.2	5.2	5.2	4.2	2.1
165°	5.2	5.2	5.2	4.2	3.1
167.5°	5.2	5.2	6.2	4.2	3.1
170°	5.2	5.2	6.2	4.2	3.1
172.5°	6.2	5.2	6.2	4.2	3.1
175°	6.2	6.2	6.2	5.2	4.2
177.5°	6.2	6.2	6.2	5.2	4.2
180°	5.2	5.2	5.2	5.2	5.2

(END OF REPORT)