

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: P236611

Luminaire Tested: **VRVT4LED-LD5-18-DR-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-DR-UNV-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (448) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18358.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.15 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

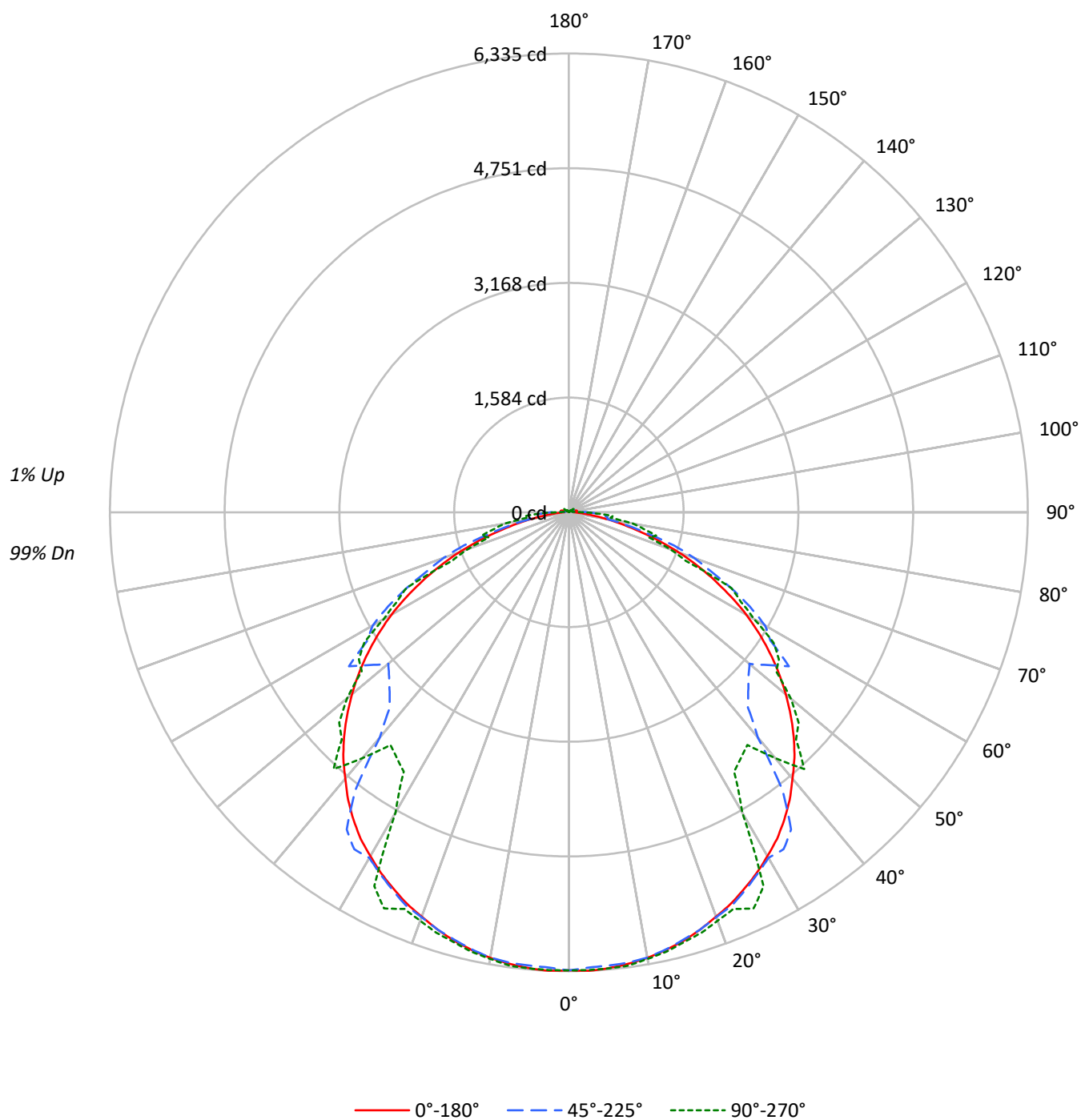
Input Watts (W): 133.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	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	62	53	47	73	61	53	46		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	35		47	40	35		45	39	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		38	32	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15842	15842	15842
5°	15804	15506	15566
10°	15723	15304	15277
15°	15626	14990	14969
20°	15493	14715	14713
25°	15408	14475	15000
30°	15319	14194	12164
35°	15202	14231	10837
40°	14937	11270	12048
45°	14667	10226	12671
50°	14201	10119	12110
55°	13623	12413	11508
60°	12827	11451	10458
65°	11614	10036	9686
70°	10103	8480	6559
75°	7870	5964	6372
80°	5615	3532	5493
85°	3447	4065	4653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.2	3.3
10°-20°	1731.1	9.4
20°-30°	2662.5	14.5
30°-40°	3021.5	16.5
40°-50°	3209.9	17.5
50°-60°	3037.0	16.5
60°-70°	2208.3	12.0
70°-80°	1155.0	6.3
80°-90°	464.9	2.5
90°-100°	103.9	0.6
100°-110°	62.2	0.3
110°-120°	41.4	0.2
120°-130°	32.8	0.2
130°-140°	17.1	0.1
140°-150°	6.0	0.0
150°-160°	2.2	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4993.9	27.2
0°-40°	8015.3	43.7
0°-60°	14262.2	77.7
0°-90°	18090.4	98.5
90°-120°	207.5	1.1
90°-150°	263.3	1.4
90°-180°	268.0	1.5
0°-180°	18358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6324	6324	6324	6324	6324	
5°	6318	6303	6281	6312	6320	601
15°	6123	6134	6109	6135	6143	1728
25°	5732	5729	5756	5833	6034	2644
35°	5182	5154	5346	4112	4139	3238
45°	4391	4380	3500	4634	4435	3380
55°	3389	3239	3705	3434	3538	3024
65°	2214	1837	2465	2391	2475	2193
75°	997	1108	1105	880	1248	1080
85°	203	312	485	534	606	236
90°	64	177	256	237	196	43
95°	93	86	67	64	65	79
105°	93	70	51	48	45	97
115°	43	49	38	33	34	45
125°	20	18	27	83	78	19
135°	10	8	16	38	22	8
145°	6	5	5	19	18	4
155°	5	5	5	4	3	2
165°	6	6	6	5	3	2
175°	7	6	7	6	5	1
180°	6	6	6	6	6	



TEST NUMBER: P236611

CATALOG NUMBER: VRVT4LED-LD5-18-DR-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6324.1	6324.1	6324.1	6324.1	6324.1
2.5°	6335.1	6321.1	6290.1	6315.1	6325.1
5°	6318.1	6303.1	6281.1	6312.1	6320.1
7.5°	6287.1	6275.1	6271.1	6310.1	6312.1
10°	6247.1	6235.1	6242.1	6259.1	6260.1
12.5°	6190.1	6194.1	6182.1	6204.1	6213.1
15°	6123.1	6134.1	6109.1	6135.1	6143.1
17.5°	6037.1	6047.1	6037.1	6078.1	6085.1
20°	5940.1	5953.1	5947.1	5989.1	6001.1
22.5°	5848.1	5848.1	5875.1	5917.1	5928.1
25°	5732.1	5729.1	5756.1	5833.1	6034.1
27.5°	5615.1	5598.1	5631.1	5860.1	5818.1
30°	5481.1	5470.1	5509.1	5479.1	4788.1
32.5°	5346.1	5314.1	5516.1	4532.1	4244.1
35°	5182.1	5154.1	5346.1	4112.1	4139.1
37.5°	5005.1	4993.1	4847.1	3992.1	4048.1
40°	4800.1	4789.1	4061.1	3898.1	4426.1
42.5°	4608.1	4596.1	3657.1	4148.1	4808.1
45°	4391.1	4380.1	3500.1	4634.1	4435.1
47.5°	4153.1	4266.1	3363.1	4214.1	4299.1
50°	3907.1	4043.1	3254.1	4034.1	3996.1
52.5°	3655.1	3767.1	3461.1	3753.1	3604.1
55°	3389.1	3239.1	3705.1	3434.1	3538.1
57.5°	3112.1	2700.0	3297.1	3292.1	3350.1
60°	2829.0	2294.0	3127.1	3088.1	2955.1
62.5°	2523.0	2069.0	2812.0	2688.0	2679.0
65°	2214.0	1837.0	2465.0	2391.0	2475.0
67.5°	1912.0	1593.0	2110.0	2202.0	1743.0
70°	1609.0	1371.0	1834.0	1416.0	1486.0
72.5°	1298.0	1181.0	1517.0	1325.0	1159.0
75°	997.0	1108.0	1105.0	880.0	1248.0
77.5°	740.0	983.0	826.0	940.0	1057.0
80°	523.0	711.0	540.0	676.0	899.0
82.5°	341.0	439.0	539.0	683.0	580.0
85°	203.0	312.0	485.0	534.0	606.0
87.5°	128.0	228.0	368.0	395.0	390.0
90°	64.0	177.0	256.0	237.0	196.0
92.5°	59.0	131.0	127.0	113.0	101.0
95°	93.0	86.0	67.0	64.0	65.0
97.5°	114.0	66.0	52.0	52.0	52.0
100°	111.0	68.0	50.0	48.0	45.0
102.5°	106.0	82.0	50.0	47.0	46.0
105°	93.0	70.0	51.0	48.0	45.0
107.5°	78.0	61.0	49.0	50.0	49.0
110°	65.0	55.0	47.0	45.0	44.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.0	53.0	44.0	38.0	42.0
115°	43.0	49.0	38.0	33.0	34.0
117.5°	36.0	36.0	46.0	30.0	29.0
120°	29.0	30.0	74.0	28.0	27.0
122.5°	24.0	26.0	45.0	55.0	29.0
125°	20.0	18.0	27.0	83.0	78.0
127.5°	17.0	13.0	25.0	42.0	74.0
130°	14.0	11.0	38.0	22.0	31.0
132.5°	12.0	9.0	43.0	21.0	19.0
135°	10.0	8.0	16.0	38.0	22.0
137.5°	8.0	7.0	14.0	64.0	44.0
140°	7.0	6.0	15.0	15.0	33.0
142.5°	7.0	5.0	7.0	15.0	13.0
145°	6.0	5.0	5.0	19.0	18.0
147.5°	5.0	5.0	5.0	13.0	19.0
150°	5.0	5.0	5.0	5.0	8.0
152.5°	5.0	5.0	5.0	4.0	3.0
155°	5.0	5.0	5.0	4.0	3.0
157.5°	5.0	5.0	5.0	4.0	3.0
160°	6.0	5.0	6.0	4.0	3.0
162.5°	6.0	6.0	6.0	5.0	3.0
165°	6.0	6.0	6.0	5.0	3.0
167.5°	6.0	6.0	6.0	5.0	4.0
170°	6.0	6.0	6.0	5.0	4.0
172.5°	6.0	6.0	7.0	6.0	4.0
175°	7.0	6.0	7.0	6.0	5.0
177.5°	7.0	6.0	7.0	6.0	5.0
180°	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)