

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: P417737

Luminaire Tested: **VHB-1215-W-UNV-L750-CD-U-LEVEL2**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417737
Test Lab: INNOVATION CENTER(G3)
Issue Date: 11/17/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-1215-W-UNV-L750-CD-U-LEVEL2
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17097.9 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.14 / 1.25
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

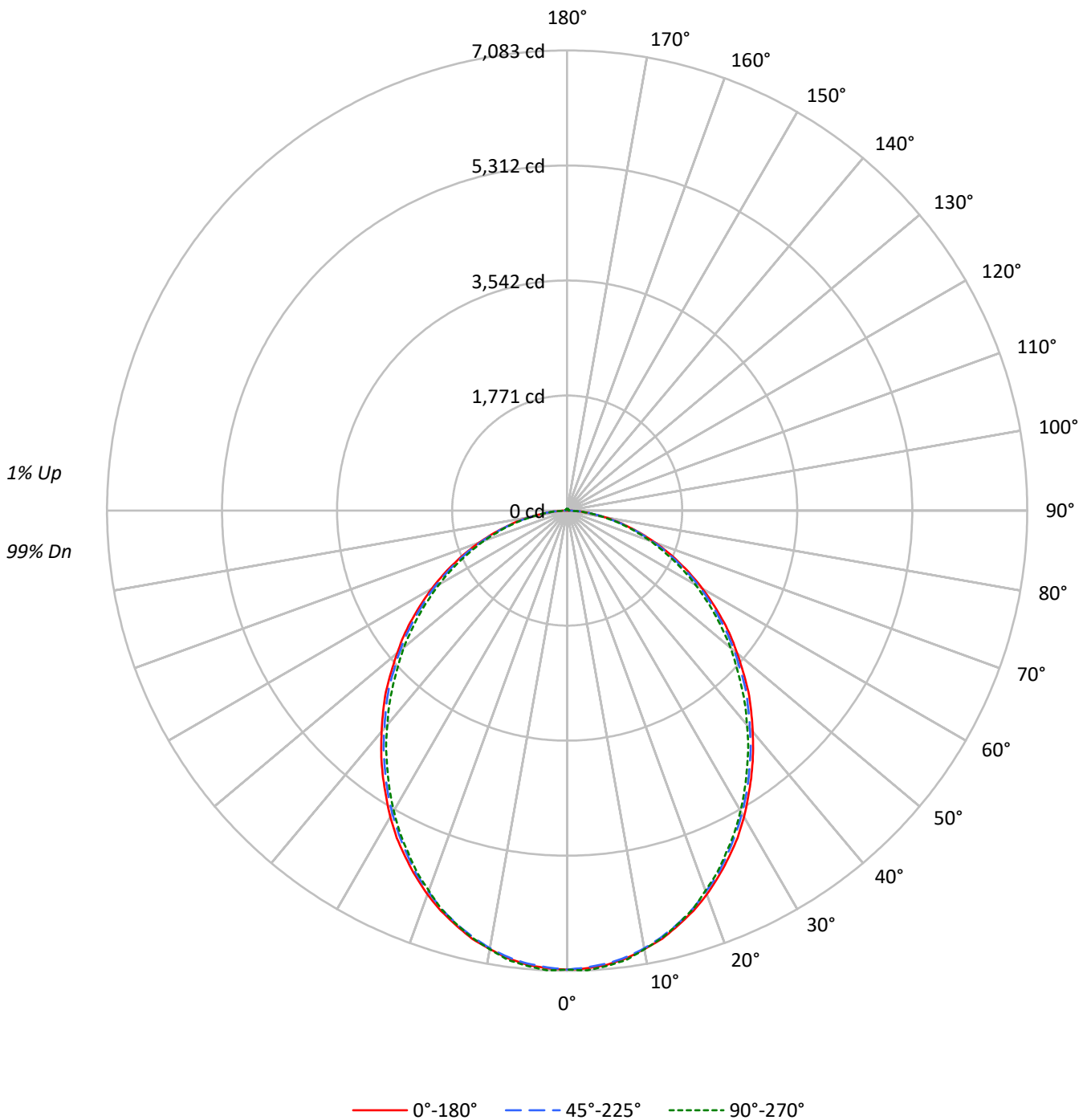
Input Watts (W): 109.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	79	97	90	84	78	86	81	76	83	78	75	79	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43460	43460	43460
5°	43330	43220	43440
10°	42808	42725	42819
15°	42075	41934	41956
20°	41159	40862	40751
25°	39963	39607	39371
30°	38668	38225	37916
35°	37172	36691	36250
40°	35669	35119	34576
45°	34323	33781	32937
50°	32657	32154	31405
55°	31215	30538	29708
60°	29601	28944	28003
65°	27859	27185	26215
70°	25814	25334	24454
75°	23518	23199	22396
80°	21026	20679	19953
85°	17834	17834	17396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.3	3.9
10°-20°	1855.7	10.9
20°-30°	2688.8	15.7
30°-40°	3058.2	17.9
40°-50°	2982.2	17.4
50°-60°	2546.0	14.9
60°-70°	1848.3	10.8
70°-80°	1032.1	6.0
80°-90°	289.8	1.7
90°-100°	20.6	0.1
100°-110°	20.3	0.1
110°-120°	20.0	0.1
120°-130°	19.2	0.1
130°-140°	18.1	0.1
140°-150°	15.6	0.1
150°-160°	10.9	0.1
160°-170°	6.0	0.0
170°-180°	1.8	0.0
0°-30°	5208.8	30.5
0°-40°	8267.1	48.4
0°-60°	13795.2	80.7
0°-90°	16965.3	99.2
90°-120°	60.9	0.4
90°-150°	113.8	0.7
90°-180°	133.0	0.8
0°-180°	17097.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7066	7066	7066	7066	7066	
5°	7018	7002	7000	7024	7036	665
15°	6608	6596	6585	6584	6589	1862
25°	5888	5868	5836	5815	5801	2711
35°	4950	4934	4886	4841	4828	3096
45°	3946	3908	3884	3812	3786	3036
55°	2911	2898	2848	2788	2770	2604
65°	1914	1900	1868	1824	1801	1898
75°	990	995	976	952	942	1058
85°	253	258	253	246	246	276
90°	18	20	23	28	26	21
95°	8	13	20	23	24	8
105°	15	15	19	23	25	16
115°	18	18	20	22	24	17
125°	19	20	20	23	23	17
135°	21	23	24	24	24	17
145°	20	24	26	28	28	13
155°	20	21	25	26	26	9
165°	16	19	21	24	24	5
175°	18	18	19	20	20	2
180°	18	18	18	18	18	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7065.8	7065.8	7065.8	7065.8	7065.8
2.5°	7051.6	7032.9	7036.5	7059.6	7082.7
5°	7017.8	7001.8	7000.0	7024.0	7035.6
7.5°	6951.9	6935.0	6934.1	6961.7	6975.1
10°	6854.0	6849.6	6840.7	6859.4	6855.8
12.5°	6751.7	6726.8	6722.3	6737.5	6738.3
15°	6607.5	6596.0	6585.3	6584.4	6588.8
17.5°	6459.8	6434.9	6428.7	6425.1	6434.0
20°	6288.1	6260.5	6242.7	6239.1	6225.8
22.5°	6093.2	6076.3	6059.4	6030.0	6032.7
25°	5888.5	5868.0	5836.0	5814.6	5801.3
27.5°	5679.4	5647.3	5613.5	5593.9	5582.4
30°	5444.4	5424.8	5382.1	5345.6	5338.5
32.5°	5195.3	5181.9	5139.2	5107.2	5085.8
35°	4950.5	4934.5	4886.5	4841.1	4827.7
37.5°	4701.4	4681.8	4640.8	4600.8	4578.6
40°	4442.4	4428.2	4373.9	4325.8	4306.2
42.5°	4192.3	4173.6	4124.7	4066.0	4054.4
45°	3945.8	3908.5	3883.5	3811.5	3786.5
47.5°	3672.6	3662.8	3609.4	3551.6	3524.0
50°	3412.8	3406.5	3360.3	3295.3	3282.0
52.5°	3174.3	3149.4	3106.7	3047.9	3017.7
55°	2910.9	2898.4	2847.7	2788.1	2770.3
57.5°	2652.8	2652.8	2598.5	2547.8	2517.5
60°	2406.3	2391.2	2352.9	2304.0	2276.4
62.5°	2158.0	2145.6	2112.6	2063.7	2038.8
65°	1914.2	1899.9	1867.9	1824.3	1801.2
67.5°	1681.0	1664.1	1643.7	1586.7	1571.6
70°	1435.4	1431.9	1408.7	1369.6	1359.8
72.5°	1214.7	1211.2	1184.5	1149.8	1139.1
75°	989.6	994.9	976.2	952.2	942.4
77.5°	793.8	788.5	770.7	756.4	739.5
80°	593.6	591.8	583.8	564.2	563.3
82.5°	410.2	417.4	411.1	396.9	391.6
85°	252.7	258.1	252.7	245.6	246.5
87.5°	113.0	114.8	108.6	97.9	90.8
90°	17.8	19.6	23.1	27.6	25.8
92.5°	6.2	13.3	19.6	23.1	24.0
95°	8.0	13.3	19.6	23.1	24.0
97.5°	11.6	13.3	19.6	23.1	24.9
100°	13.3	14.2	19.6	23.1	24.9
102.5°	14.2	14.2	19.6	23.1	24.9
105°	15.1	15.1	18.7	23.1	24.9
107.5°	16.0	15.1	18.7	23.1	24.9
110°	16.0	16.0	18.7	23.1	24.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.9	16.9	19.6	22.2	24.0
115°	17.8	17.8	19.6	22.2	24.0
117.5°	17.8	18.7	19.6	23.1	24.0
120°	18.7	19.6	19.6	23.1	23.1
122.5°	18.7	20.5	20.5	23.1	23.1
125°	18.7	20.5	20.5	23.1	23.1
127.5°	19.6	21.4	20.5	23.1	23.1
130°	20.5	21.4	22.2	23.1	23.1
132.5°	20.5	22.2	23.1	24.0	23.1
135°	21.4	23.1	24.0	24.0	24.0
137.5°	22.2	23.1	24.9	24.9	24.9
140°	22.2	24.0	24.9	25.8	25.8
142.5°	20.5	24.0	24.9	26.7	26.7
145°	20.5	24.0	25.8	27.6	27.6
147.5°	19.6	23.1	24.9	27.6	27.6
150°	19.6	22.2	24.9	26.7	26.7
152.5°	20.5	21.4	24.9	25.8	26.7
155°	19.6	21.4	24.9	25.8	25.8
157.5°	18.7	20.5	24.0	25.8	26.7
160°	17.8	20.5	23.1	25.8	25.8
162.5°	16.9	19.6	22.2	24.9	25.8
165°	16.0	18.7	21.4	24.0	24.0
167.5°	16.0	18.7	20.5	22.2	23.1
170°	16.9	17.8	19.6	20.5	21.4
172.5°	17.8	17.8	19.6	19.6	19.6
175°	17.8	17.8	18.7	19.6	20.5
177.5°	18.7	17.8	17.8	19.6	19.6
180°	17.8	17.8	17.8	17.8	17.8

(END OF REPORT)