

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: P417716

Luminaire Tested: **VHB-1215-N-UNV-L935-CD-U-LEVEL1**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417716
Test Lab: INNOVATION CENTER(G3)
Issue Date: 11/17/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-1215-N-UNV-L935-CD-U-LEVEL1
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10329.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.74 / 0.88
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

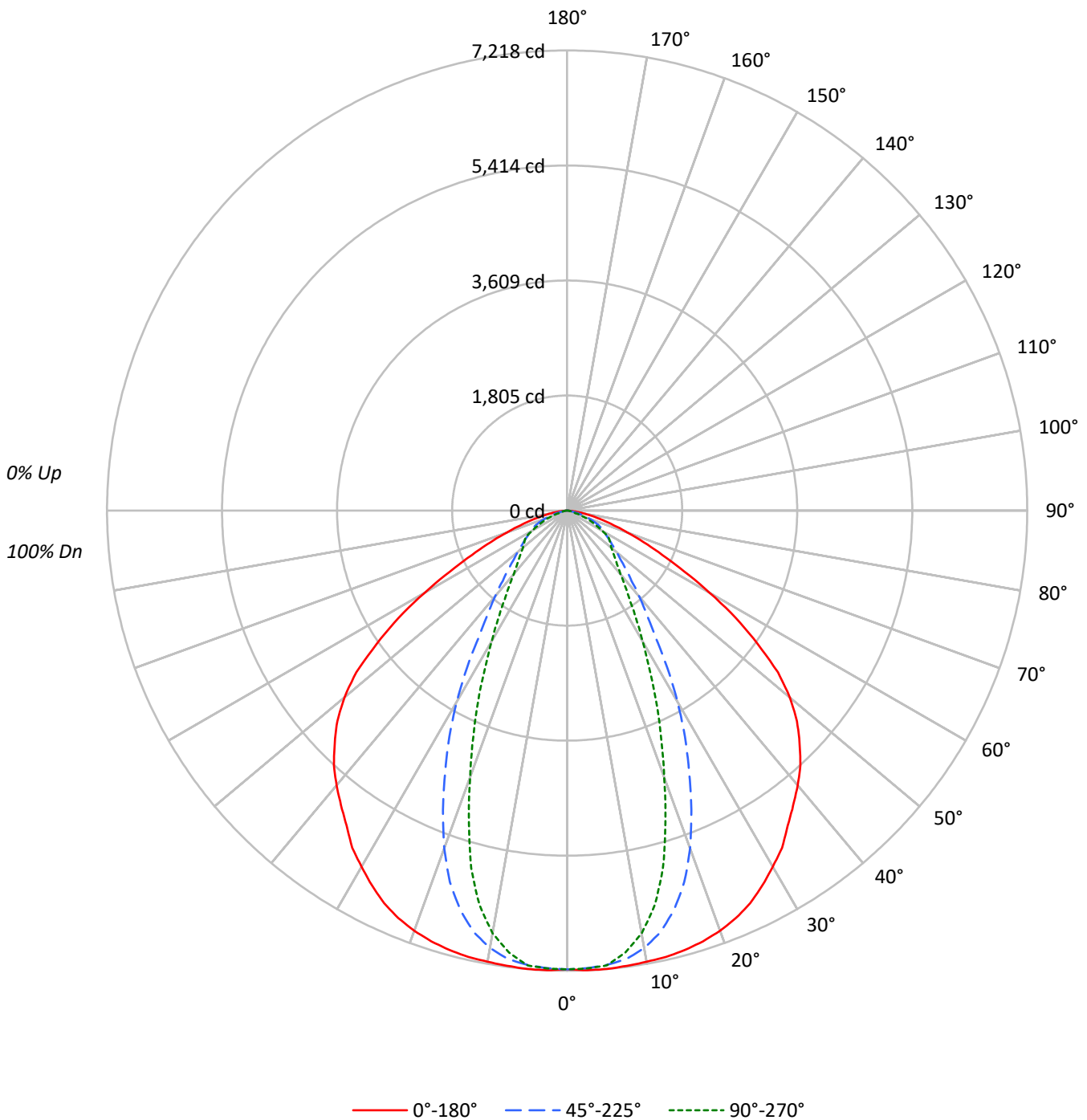
Input Watts (W): 80.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50				50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46				46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42				42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36				36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44264	44264	44264
5°	44564	44167	44215
10°	44880	43504	42048
15°	45444	41261	36985
20°	45904	36909	29111
25°	46115	30714	22431
30°	45806	24583	16792
35°	45283	18085	12854
40°	45173	14113	10455
45°	44852	11355	9269
50°	43638	9678	8646
55°	39120	8705	8724
60°	31787	8184	7847
65°	23979	7933	6379
70°	18189	6575	4363
75°	13765	4943	2338
80°	9943	2437	1920
85°	6394	2089	1616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.1	6.6
10°-20°	1799.5	17.4
20°-30°	2201.4	21.3
30°-40°	1975.1	19.1
40°-50°	1531.4	14.8
50°-60°	1136.6	11.0
60°-70°	685.5	6.6
70°-80°	273.5	2.6
80°-90°	49.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4678.0	45.3
0°-40°	6653.1	64.4
0°-60°	9321.1	90.2
0°-90°	10329.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10329.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7196	7196	7196	7196	7196	
5°	7218	7172	7153	7133	7161	688
15°	7137	6942	6480	5998	5808	2017
25°	6795	6046	4526	3590	3305	3125
35°	6031	4432	2408	1840	1712	3785
45°	5156	2328	1305	1093	1066	3968
55°	3648	1244	812	784	814	3241
65°	1648	690	545	465	438	1681
75°	579	336	208	110	98	635
85°	91	38	30	25	23	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7196.4	7196.4	7196.4	7196.4	7196.4
2.5°	7217.1	7174.0	7184.7	7184.7	7186.9
5°	7217.7	7172.4	7153.4	7132.7	7161.2
7.5°	7201.4	7148.9	7096.3	7008.6	6990.1
10°	7185.8	7109.2	6965.5	6797.2	6732.4
12.5°	7170.1	7053.3	6772.1	6454.0	6342.1
15°	7136.6	6941.5	6479.7	5997.8	5808.2
17.5°	7084.6	6783.8	6111.2	5417.4	5126.2
20°	7013.0	6588.1	5638.8	4768.3	4447.4
22.5°	6919.1	6355.6	5088.1	4147.8	3850.3
25°	6795.0	6045.8	4525.7	3590.4	3305.2
27.5°	6630.1	5699.2	3997.9	3070.4	2787.0
30°	6449.5	5324.1	3461.2	2578.5	2364.3
32.5°	6272.3	4915.4	2921.7	2164.7	2011.5
35°	6030.7	4432.3	2408.5	1839.9	1711.9
37.5°	5825.6	3911.8	2041.2	1584.4	1492.2
40°	5626.0	3358.9	1757.7	1385.4	1302.1
42.5°	5415.8	2811.6	1495.5	1216.0	1166.8
45°	5156.3	2328.5	1305.4	1093.0	1065.6
47.5°	4889.7	1971.9	1132.1	1000.2	978.9
50°	4560.4	1670.5	1011.4	908.5	903.5
52.5°	4165.7	1434.6	900.1	840.3	850.9
55°	3648.0	1244.5	811.8	784.4	813.5
57.5°	3141.4	1076.2	733.5	741.9	766.5
60°	2584.0	925.3	665.3	679.8	637.9
62.5°	2071.4	803.4	606.0	564.7	530.0
65°	1647.6	690.5	545.1	465.1	438.3
67.5°	1296.5	588.7	460.1	380.7	347.2
70°	1011.4	496.5	365.6	296.3	242.6
72.5°	771.5	414.8	289.6	179.5	143.7
75°	579.2	336.0	208.0	109.6	98.4
77.5°	414.8	252.1	121.3	79.9	75.5
80°	280.7	164.9	68.8	58.7	54.2
82.5°	175.0	91.1	47.0	41.4	38.6
85°	90.6	37.5	29.6	25.2	22.9
87.5°	31.9	16.8	13.4	10.6	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)