

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: P565444

Luminaire Tested: **VHB-15-N-UNV-L935-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-15-N-UNV-L935-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

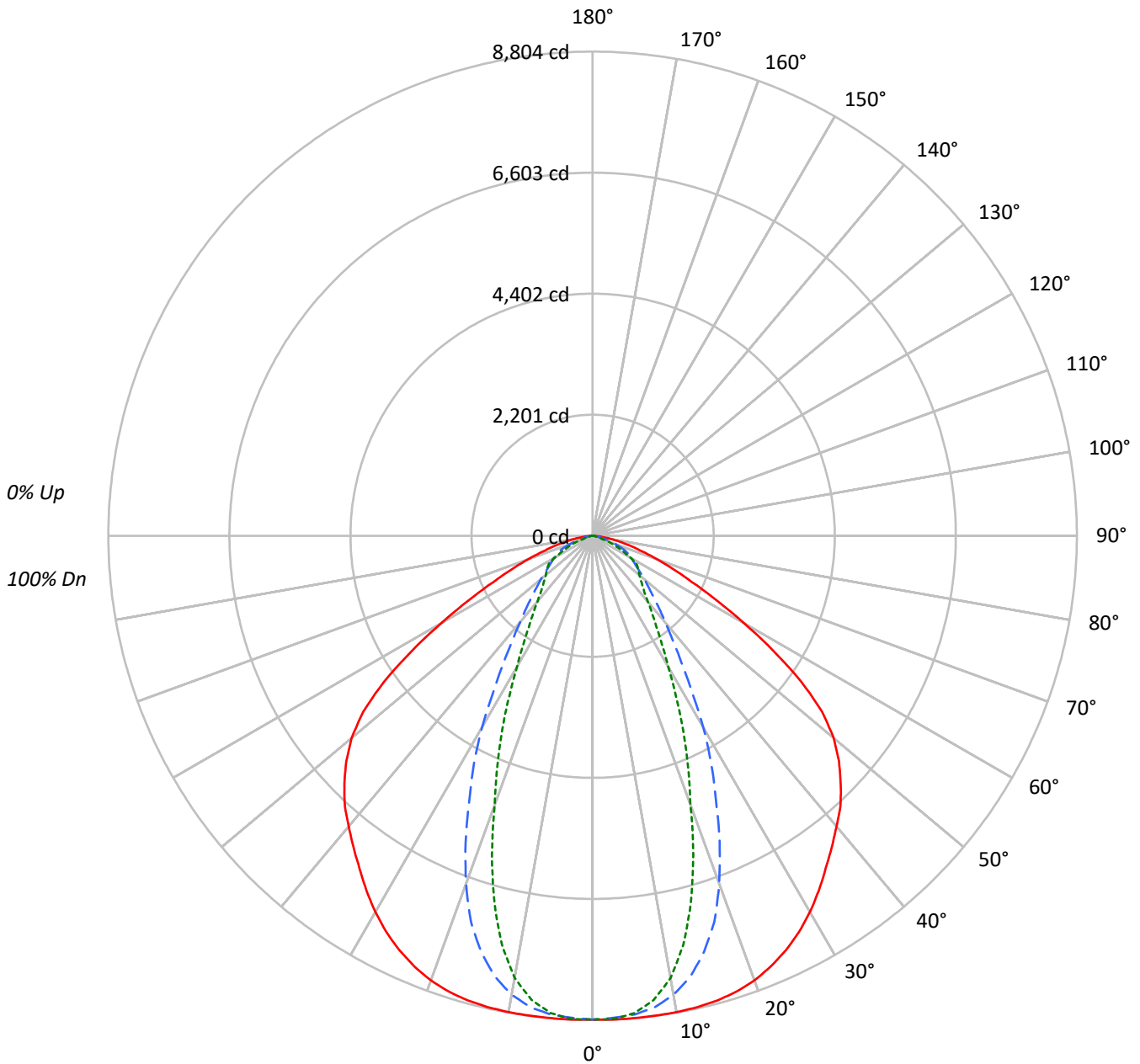
Lumens per Lamp: N/A
Luminaire Lumens: 12405.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 111.6
Input Voltage (V): NR
Input Current (A_{in}): 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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69								
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62								
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55								
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50								
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46								
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42								
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39								
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	54103	54103	54103
5°	54357	53944	53789
10°	54928	52910	50978
15°	55712	49851	43955
20°	56312	44040	34031
25°	56424	35962	26370
30°	56108	28562	19516
35°	55468	21165	15177
40°	55380	16436	12525
45°	55497	13526	11126
50°	54710	11699	10612
55°	49666	10429	10723
60°	39046	9966	9770
65°	29002	9659	7353
70°	22242	7733	4489
75°	16932	5513	2476
80°	12433	2564	2001
85°	7777	2209	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.4	6.7
10°-20°	2175.5	17.5
20°-30°	2627.1	21.2
30°-40°	2349.0	18.9
40°-50°	1839.4	14.8
50°-60°	1389.8	11.2
60°-70°	825.4	6.7
70°-80°	317.2	2.6
80°-90°	55.1	0.4
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°	5629.0	45.4
0°-40°	7978.0	64.3
0°-60°	11207.2	90.3
0°-90°	12405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8796	8796	8796	8796	8796	
5°	8804	8765	8737	8725	8712	840
15°	8749	8460	7829	7174	6903	2472
25°	8314	7336	5299	4178	3886	3828
35°	7387	5257	2819	2198	2021	4632
45°	6380	2718	1555	1314	1279	4911
55°	4632	1475	972	969	1000	4067
65°	1993	828	664	553	505	2053
75°	712	398	232	115	104	780
85°	110	38	31	27	25	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8796.1	8796.1	8796.1	8796.1	8796.1
2.5°	8804.4	8775.3	8773.1	8791.8	8794.5
5°	8803.8	8765.4	8736.9	8725.4	8711.7
7.5°	8801.1	8742.9	8647.0	8554.8	8512.0
10°	8794.5	8691.4	8471.4	8261.9	8162.1
12.5°	8780.2	8599.2	8210.9	7825.9	7616.3
15°	8749.0	8460.5	7828.6	7174.3	6902.8
17.5°	8692.5	8269.0	7360.2	6436.5	6087.1
20°	8603.1	8025.5	6728.3	5595.2	5199.1
22.5°	8474.7	7707.4	6032.3	4837.7	4521.2
25°	8314.0	7336.1	5299.0	4177.9	3885.5
27.5°	8123.1	6902.8	4667.1	3563.5	3275.6
30°	7899.9	6396.5	4021.5	2983.2	2747.9
32.5°	7650.3	5863.4	3347.4	2540.6	2347.0
35°	7387.1	5256.7	2818.7	2197.8	2021.2
37.5°	7139.2	4607.3	2387.0	1894.5	1770.5
40°	6897.3	3925.0	2047.0	1654.8	1559.9
42.5°	6669.1	3272.3	1787.0	1454.0	1392.1
45°	6380.0	2718.3	1555.0	1313.6	1279.1
47.5°	6073.4	2294.3	1370.7	1199.5	1187.5
50°	5717.5	1954.3	1222.6	1100.3	1109.0
52.5°	5255.6	1685.5	1082.2	1030.1	1055.8
55°	4631.5	1474.9	972.5	968.6	999.9
57.5°	3900.3	1273.6	885.8	909.9	945.0
60°	3174.1	1111.8	810.1	845.2	794.2
62.5°	2535.7	963.1	738.3	674.1	630.2
65°	1992.7	828.2	663.7	553.4	505.2
67.5°	1589.0	702.6	558.4	440.4	400.4
70°	1236.8	590.7	430.0	330.7	249.6
72.5°	947.8	493.6	335.7	188.1	142.1
75°	712.5	398.2	232.0	114.6	104.2
77.5°	507.9	295.6	124.0	82.8	76.8
80°	351.0	189.8	72.4	59.8	56.5
82.5°	217.8	91.6	49.4	42.8	40.0
85°	110.2	38.4	31.3	27.4	25.2
87.5°	36.7	18.6	14.3	13.2	12.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)