

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: P565458

Luminaire Tested: **VHB-18-N-UNV-L950-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565458
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-18-N-UNV-L950-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

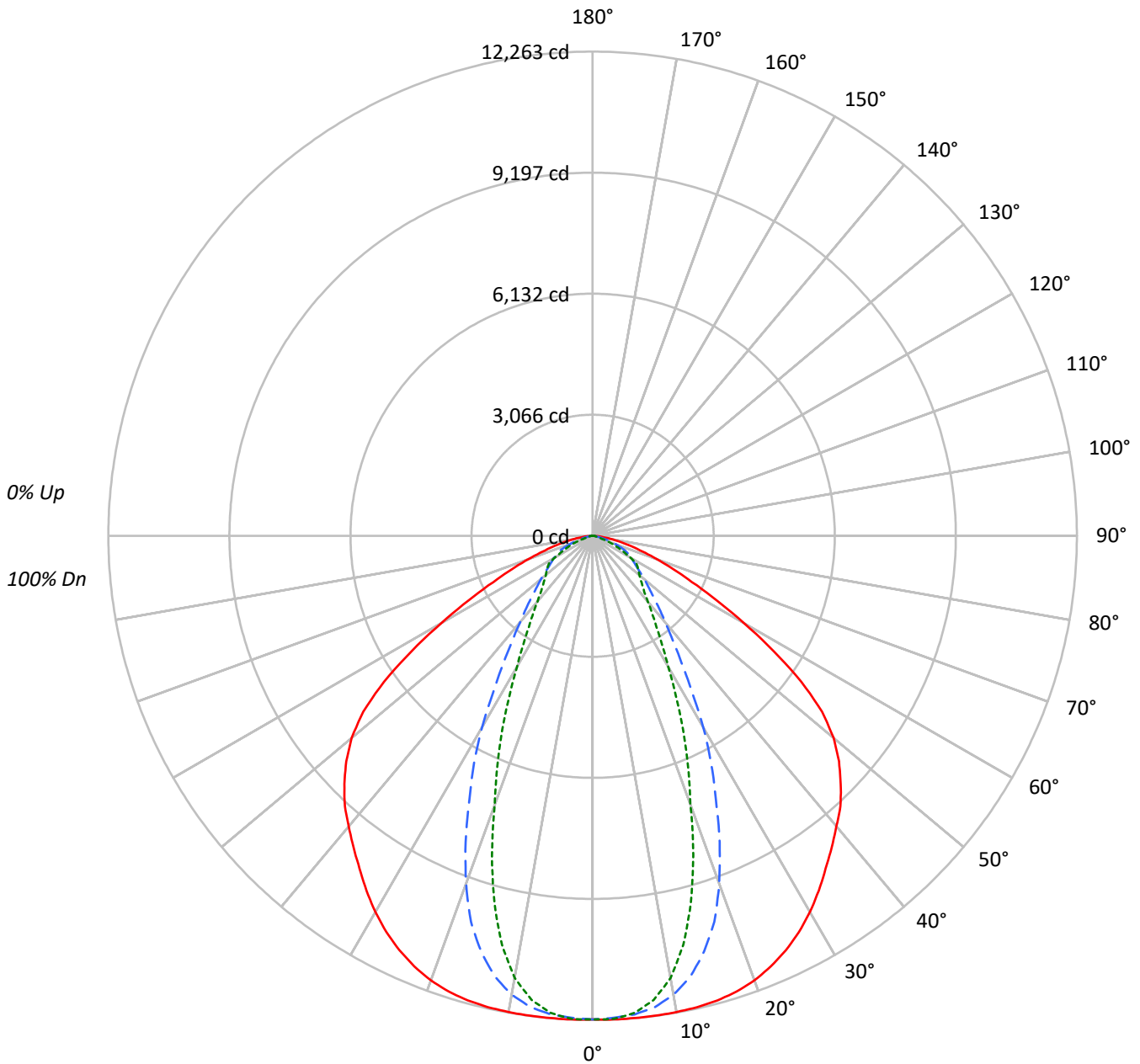
Lumens per Lamp: N/A
Luminaire Lumens: 17278.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 133.8
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	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°	75356	75356	75356
5°	75710	75135	74918
10°	76505	73694	71003
15°	77596	69433	61222
20°	78433	61341	47399
25°	78589	50089	36728
30°	78148	39782	27183
35°	77257	29479	21139
40°	77135	22892	17445
45°	77298	18839	15496
50°	76201	16294	14781
55°	69176	14525	14935
60°	54385	13881	13608
65°	40393	13454	10240
70°	30981	10770	6251
75°	23584	7681	3451
80°	17317	3570	2788
85°	10840	3070	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.1	6.7
10°-20°	3030.1	17.5
20°-30°	3659.1	21.2
30°-40°	3271.7	18.9
40°-50°	2562.0	14.8
50°-60°	1935.8	11.2
60°-70°	1149.7	6.7
70°-80°	441.8	2.6
80°-90°	76.8	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°	7840.2	45.4
0°-40°	11111.9	64.3
0°-60°	15609.7	90.3
0°-90°	17278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12252	12252	12252	12252	12252	
5°	12262	12209	12169	12153	12134	###
15°	12186	11784	10904	9992	9614	3443
25°	11580	10218	7380	5819	5412	5332
35°	10289	7322	3926	3061	2815	6452
45°	8886	3786	2166	1830	1782	6840
55°	6451	2054	1354	1349	1393	5665
65°	2775	1154	924	771	704	2860
75°	992	555	323	160	145	1086
85°	154	54	44	38	35	205
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12251.5	12251.5	12251.5	12251.5	12251.5
2.5°	12262.9	12222.5	12219.4	12245.4	12249.2
5°	12262.2	12208.7	12169.0	12152.9	12133.8
7.5°	12258.4	12177.4	12043.7	11915.3	11855.8
10°	12249.2	12105.6	11799.2	11507.4	11368.4
12.5°	12229.3	11977.2	11436.4	10900.1	10608.2
15°	12185.8	11784.0	10903.9	9992.5	9614.3
17.5°	12107.1	11517.3	10251.5	8965.0	8478.3
20°	11982.6	11178.1	9371.4	7793.1	7241.5
22.5°	11803.8	10735.0	8401.9	6738.1	6297.3
25°	11580.0	10217.8	7380.5	5819.0	5411.8
27.5°	11314.1	9614.3	6500.5	4963.4	4562.3
30°	11003.2	8909.2	5601.3	4155.1	3827.4
32.5°	10655.6	8166.6	4662.4	3538.6	3268.9
35°	10288.9	7321.7	3925.9	3061.2	2815.2
37.5°	9943.6	6417.2	3324.7	2638.7	2466.0
40°	9606.7	5466.8	2851.1	2304.8	2172.7
42.5°	9288.9	4557.7	2489.0	2025.2	1938.9
45°	8886.3	3786.1	2165.8	1829.7	1781.5
47.5°	8459.2	3195.6	1909.1	1670.8	1654.0
50°	7963.4	2722.0	1702.8	1532.5	1544.7
52.5°	7320.2	2347.6	1507.3	1434.7	1470.6
55°	6450.8	2054.3	1354.5	1349.1	1392.7
57.5°	5432.5	1773.9	1233.8	1267.4	1316.3
60°	4421.0	1548.5	1128.4	1177.2	1106.2
62.5°	3531.7	1341.5	1028.3	938.9	877.8
65°	2775.4	1153.6	924.4	770.8	703.6
67.5°	2213.2	978.6	777.7	613.5	557.7
70°	1722.7	822.8	598.9	460.7	347.6
72.5°	1320.1	687.6	467.5	262.0	197.9
75°	992.4	554.6	323.2	159.7	145.2
77.5°	707.4	411.8	172.7	115.4	107.0
80°	488.9	264.3	100.8	83.3	78.7
82.5°	303.3	127.6	68.8	59.6	55.8
85°	153.6	53.5	43.5	38.2	35.1
87.5°	51.2	26.0	19.9	18.3	16.8
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)