

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: P565464

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

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-18-W-UNV-L950-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

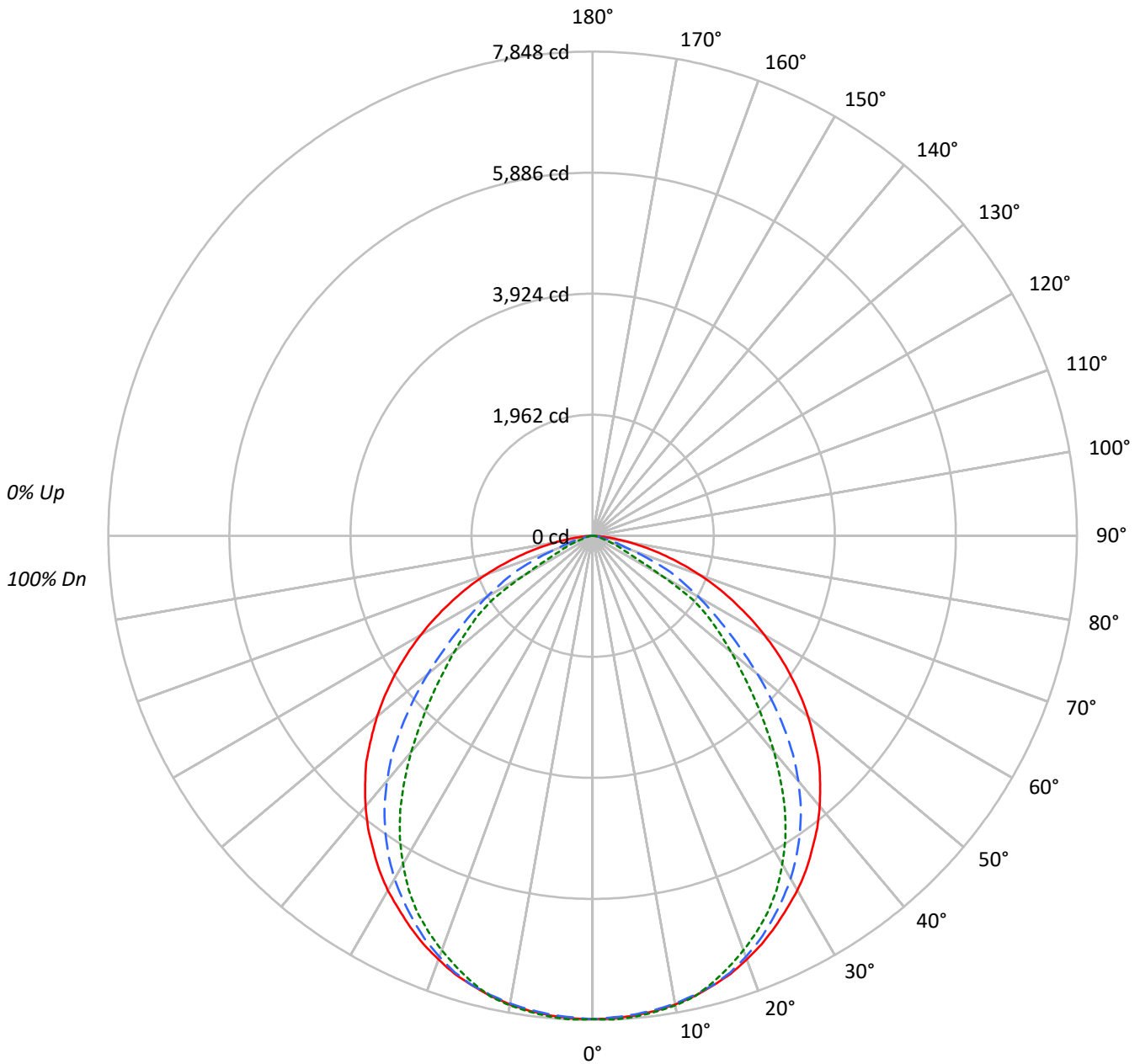
Lumens per Lamp: N/A
Luminaire Lumens: 17621.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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									
RC	80									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	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87																			
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																			
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65																			
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57																			
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50																			
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44																			
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39																			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36																			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32																			
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48187	48187	48187
5°	48195	48096	48317
10°	48177	48072	48271
15°	48063	48012	47765
20°	47830	47534	46791
25°	47476	46668	45645
30°	47131	45593	43643
35°	46569	43995	40808
40°	45956	41629	36717
45°	45120	38073	32082
50°	43630	33333	28025
55°	41848	28395	24464
60°	39534	24355	15618
65°	36632	20314	8280
70°	33063	11544	5366
75°	27776	7072	3337
80°	21107	3570	2922
85°	12823	3246	2632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.7	4.2
10°-20°	2122.0	12.0
20°-30°	3163.2	18.0
30°-40°	3643.0	20.7
40°-50°	3390.3	19.2
50°-60°	2579.8	14.6
60°-70°	1384.8	7.9
70°-80°	509.5	2.9
80°-90°	86.6	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°	6027.0	34.2
0°-40°	9669.9	54.9
0°-60°	15640.1	88.8
0°-90°	17621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7834	7834	7834	7834	7834	
5°	7806	7783	7790	7817	7826	742
15°	7548	7536	7540	7526	7501	2130
25°	6996	6990	6876	6779	6726	3225
35°	6202	6127	5859	5565	5435	3883
45°	5187	4937	4377	3857	3688	3986
55°	3902	3461	2648	2358	2281	3486
65°	2517	1849	1396	691	569	2496
75°	1169	766	298	154	140	1253
85°	182	59	46	40	37	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7834.2	7834.2	7834.2	7834.2	7834.2
2.5°	7828.7	7804.9	7812.8	7838.2	7848.5
5°	7805.7	7783.4	7789.8	7816.8	7825.5
7.5°	7767.6	7746.1	7750.9	7776.3	7785.0
10°	7713.6	7691.4	7696.9	7721.5	7728.7
12.5°	7640.6	7620.0	7624.7	7642.2	7650.1
15°	7547.8	7535.9	7539.8	7525.6	7501.0
17.5°	7443.8	7426.4	7421.6	7358.1	7331.9
20°	7307.3	7301.0	7262.1	7183.6	7148.6
22.5°	7163.7	7151.8	7084.4	6989.9	6947.9
25°	6995.5	6989.9	6876.5	6778.9	6725.7
27.5°	6814.6	6801.1	6655.1	6532.9	6460.7
30°	6636.0	6602.7	6419.4	6248.0	6144.9
32.5°	6433.7	6371.0	6152.0	5933.0	5814.0
35°	6202.0	6126.6	5859.2	5564.8	5434.7
37.5°	5977.4	5864.0	5541.8	5173.6	5007.0
40°	5723.5	5560.8	5184.7	4757.0	4572.9
42.5°	5456.1	5257.7	4804.6	4307.1	4118.3
45°	5187.1	4937.2	4376.9	3857.2	3688.2
47.5°	4867.3	4602.3	3932.6	3427.9	3282.7
50°	4559.5	4250.0	3483.5	3028.0	2928.8
52.5°	4237.3	3862.0	3047.0	2690.0	2594.0
55°	3902.4	3461.2	2647.9	2357.5	2281.3
57.5°	3566.0	3049.4	2294.0	2055.2	1918.7
60°	3213.7	2640.8	1979.8	1670.3	1269.6
62.5°	2866.9	2215.5	1666.3	1047.4	807.8
65°	2517.0	1848.9	1395.8	691.1	568.9
67.5°	2182.9	1494.2	995.8	500.7	426.1
70°	1838.5	1222.0	641.9	358.7	298.4
72.5°	1493.4	983.1	440.4	235.7	191.2
75°	1168.8	765.7	297.6	153.9	140.4
77.5°	876.0	528.5	165.8	114.3	107.1
80°	595.9	316.6	100.8	87.3	82.5
82.5°	357.1	151.6	73.0	64.3	61.9
85°	181.7	58.7	46.0	39.7	37.3
87.5°	54.0	29.4	20.6	15.9	15.1
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)