

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: P565461

Luminaire Tested: **VHB-18-W-UNV-L750-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565461  
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-L750-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 70 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

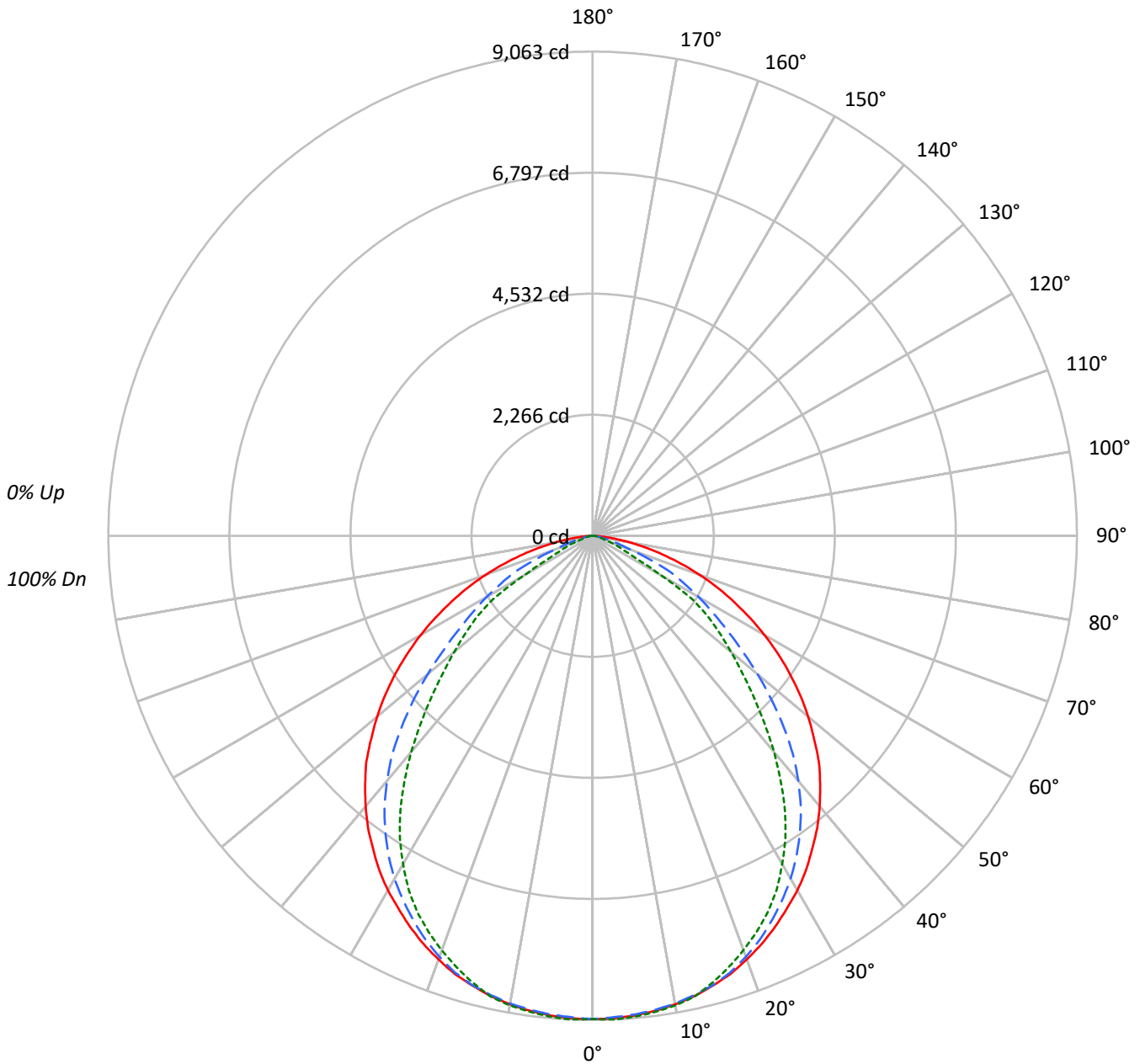
Lumens per Lamp: N/A  
Luminaire Lumens: 20348.0 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	55644	55644	55644
5°	55653	55540	55795
10°	55633	55512	55741
15°	55501	55442	55156
20°	55233	54891	54033
25°	54823	53891	52709
30°	54425	52649	50397
35°	53776	50804	47123
40°	53068	48072	42399
45°	52103	43965	37047
50°	50381	38492	32363
55°	48325	32789	28250
60°	45651	28124	18035
65°	42301	23458	9562
70°	38181	13331	6195
75°	32075	8166	3855
80°	24373	4123	3376
85°	14806	3747	3042



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.5	4.2
10°-20°	2450.4	12.0
20°-30°	3652.8	18.0
30°-40°	4206.8	20.7
40°-50°	3915.0	19.2
50°-60°	2979.0	14.6
60°-70°	1599.1	7.9
70°-80°	588.3	2.9
80°-90°	100.0	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°	6959.7	34.2
0°-40°	11166.5	54.9
0°-60°	18060.5	88.8
0°-90°	20348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9047	9047	9047	9047	9047	
5°	9014	8988	8995	9026	9037	857
15°	8716	8702	8707	8690	8662	2460
25°	8078	8072	7941	7828	7767	3724
35°	7162	7075	6766	6426	6276	4483
45°	5990	5701	5054	4454	4259	4603
55°	4506	3997	3058	2722	2634	4025
65°	2906	2135	1612	798	657	2882
75°	1350	884	344	178	162	1447
85°	210	68	53	46	43	280
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9046.6	9046.6	9046.6	9046.6	9046.6
2.5°	9040.2	9012.7	9021.9	9051.2	9063.1
5°	9013.7	8988.0	8995.3	9026.5	9036.6
7.5°	8969.7	8944.9	8950.4	8979.7	8989.8
10°	8907.4	8881.7	8888.1	8916.5	8924.8
12.5°	8823.1	8799.2	8804.7	8824.9	8834.1
15°	8715.9	8702.1	8706.7	8690.2	8661.8
17.5°	8595.8	8575.7	8570.2	8496.9	8466.6
20°	8438.2	8430.9	8386.0	8295.3	8255.0
22.5°	8272.4	8258.6	8180.7	8071.7	8023.1
25°	8078.1	8071.7	7940.7	7828.0	7766.6
27.5°	7869.2	7853.6	7685.0	7543.9	7460.5
30°	7663.0	7624.5	7412.9	7215.0	7095.8
32.5°	7429.4	7357.0	7104.1	6851.2	6713.7
35°	7161.8	7074.8	6766.0	6426.0	6275.7
37.5°	6902.5	6771.5	6399.4	5974.3	5781.9
40°	6609.3	6421.4	5987.1	5493.2	5280.6
42.5°	6300.5	6071.4	5548.2	4973.7	4755.6
45°	5989.9	5701.2	5054.3	4454.1	4259.0
47.5°	5620.6	5314.5	4541.2	3958.4	3790.7
50°	5265.1	4907.7	4022.6	3496.6	3382.1
52.5°	4893.0	4459.6	3518.6	3106.3	2995.4
55°	4506.4	3996.9	3057.7	2722.3	2634.4
57.5°	4117.9	3521.3	2649.0	2373.2	2215.6
60°	3711.0	3049.4	2286.2	1928.8	1466.1
62.5°	3310.6	2558.3	1924.2	1209.5	932.8
65°	2906.5	2135.0	1611.8	798.1	657.0
67.5°	2520.7	1725.4	1150.0	578.2	492.1
70°	2123.1	1411.1	741.3	414.2	344.5
72.5°	1724.5	1135.3	508.5	272.1	220.8
75°	1349.7	884.2	343.6	177.8	162.2
77.5°	1011.6	610.3	191.5	131.9	123.7
80°	688.1	365.6	116.4	100.8	95.3
82.5°	412.3	175.0	84.3	74.2	71.5
85°	209.8	67.8	53.1	45.8	43.1
87.5°	62.3	33.9	23.8	18.3	17.4
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)