

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: P565480

Luminaire Tested: **VHB-9-N-UNV-L935-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565480
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-9-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

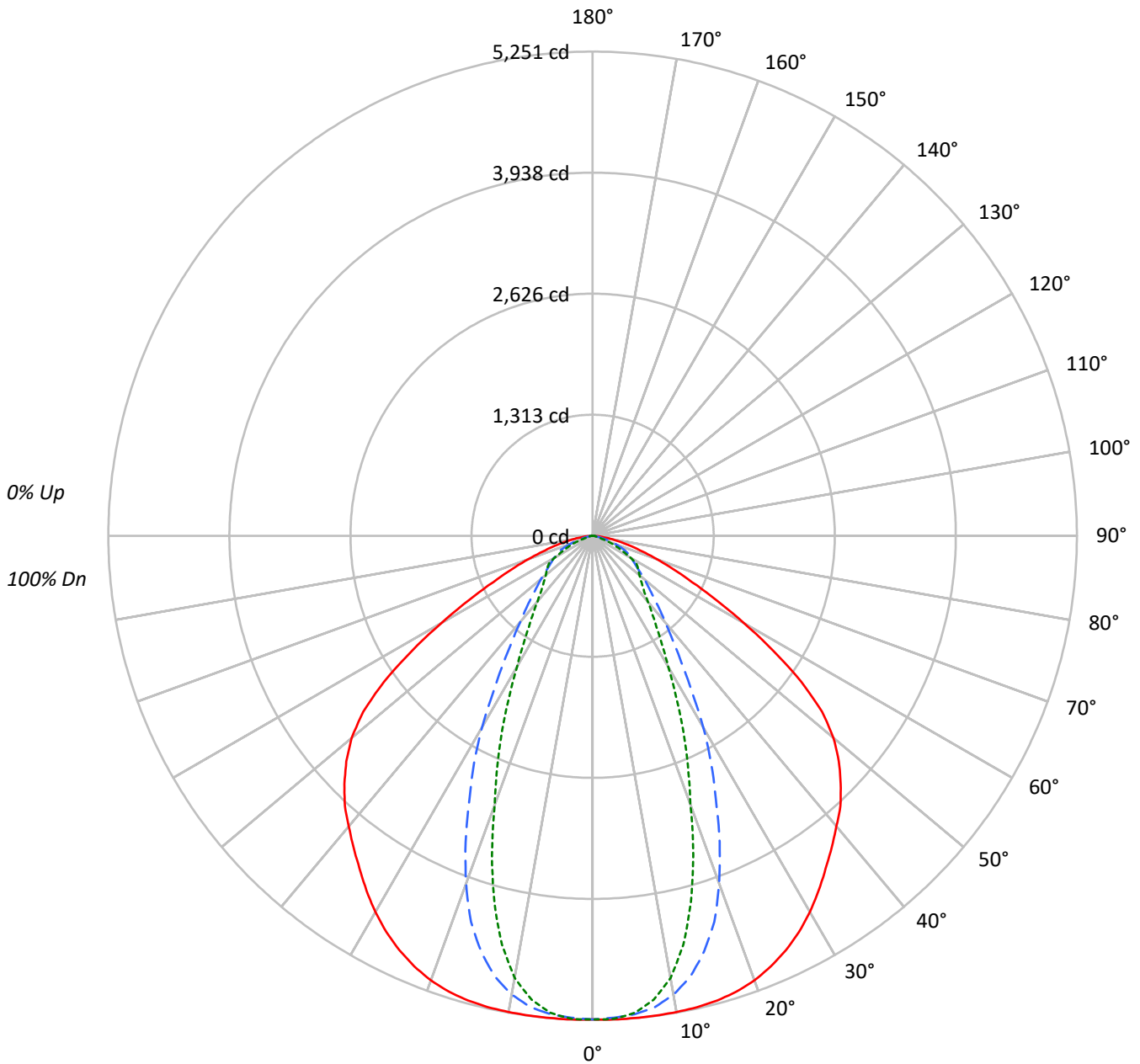
Lumens per Lamp: N/A
Luminaire Lumens: 7398.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 64.6
Input Voltage (V): NR
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: 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	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°	32266	32266	32266
5°	32417	32171	32078
10°	32757	31554	30401
15°	33224	29730	26214
20°	33583	26265	20295
25°	33650	21447	15726
30°	33461	17033	11639
35°	33079	12622	9051
40°	33027	9802	7470
45°	33097	8066	6635
50°	32627	6977	6329
55°	29620	6220	6394
60°	23287	5943	5826
65°	17296	5760	4385
70°	13265	4611	2676
75°	10098	3289	1476
80°	7414	1530	1194
85°	4637	1313	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.9	6.7
10°-20°	1297.4	17.5
20°-30°	1566.7	21.2
30°-40°	1400.9	18.9
40°-50°	1097.0	14.8
50°-60°	828.9	11.2
60°-70°	492.3	6.7
70°-80°	189.2	2.6
80°-90°	32.9	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°	3357.0	45.4
0°-40°	4757.9	64.3
0°-60°	6683.7	90.3
0°-90°	7398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5246	5246	5246	5246	5246	
5°	5250	5228	5210	5204	5195	501
15°	5218	5046	4669	4278	4117	1474
25°	4958	4375	3160	2492	2317	2283
35°	4405	3135	1681	1311	1205	2763
45°	3805	1621	927	783	763	2929
55°	2762	880	580	578	596	2426
65°	1188	494	396	330	301	1224
75°	425	238	138	68	62	465
85°	66	23	19	16	15	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5245.8	5245.8	5245.8	5245.8	5245.8
2.5°	5250.7	5233.3	5232.0	5243.2	5244.8
5°	5250.4	5227.5	5210.4	5203.6	5195.4
7.5°	5248.7	5214.0	5156.8	5101.8	5076.3
10°	5244.8	5183.3	5052.1	4927.2	4867.6
12.5°	5236.3	5128.3	4896.8	4667.1	4542.2
15°	5217.6	5045.6	4668.8	4278.5	4116.6
17.5°	5184.0	4931.4	4389.4	3838.6	3630.2
20°	5130.6	4786.2	4012.6	3336.8	3100.6
22.5°	5054.1	4596.5	3597.5	2885.1	2696.3
25°	4958.3	4375.0	3160.2	2491.6	2317.2
27.5°	4844.4	4116.6	2783.3	2125.2	1953.5
30°	4711.3	3814.7	2398.3	1779.1	1638.8
32.5°	4562.5	3496.7	1996.3	1515.1	1399.7
35°	4405.4	3135.0	1681.0	1310.7	1205.4
37.5°	4257.6	2747.7	1423.6	1129.8	1055.9
40°	4113.3	2340.8	1220.8	986.9	930.3
42.5°	3977.3	1951.5	1065.7	867.2	830.2
45°	3804.9	1621.1	927.3	783.4	762.8
47.5°	3622.0	1368.3	817.4	715.4	708.2
50°	3409.7	1165.5	729.1	656.2	661.4
52.5°	3134.3	1005.2	645.4	614.3	629.7
55°	2762.1	879.6	580.0	577.7	596.3
57.5°	2326.0	759.5	528.3	542.7	563.6
60°	1893.0	663.0	483.1	504.1	473.6
62.5°	1512.2	574.4	440.3	402.0	375.8
65°	1188.4	493.9	395.8	330.0	301.3
67.5°	947.6	419.0	333.0	262.7	238.8
70°	737.6	352.3	256.4	197.2	148.8
72.5°	565.2	294.4	200.2	112.2	84.7
75°	424.9	237.5	138.4	68.4	62.1
77.5°	302.9	176.3	73.9	49.4	45.8
80°	209.3	113.2	43.2	35.7	33.7
82.5°	129.9	54.6	29.4	25.5	23.9
85°	65.7	22.9	18.6	16.4	15.0
87.5°	21.9	11.1	8.5	7.9	7.2
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)