

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: P565482

Luminaire Tested: **VHB-9-N-UNV-L950-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565482
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-L950-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K,
90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

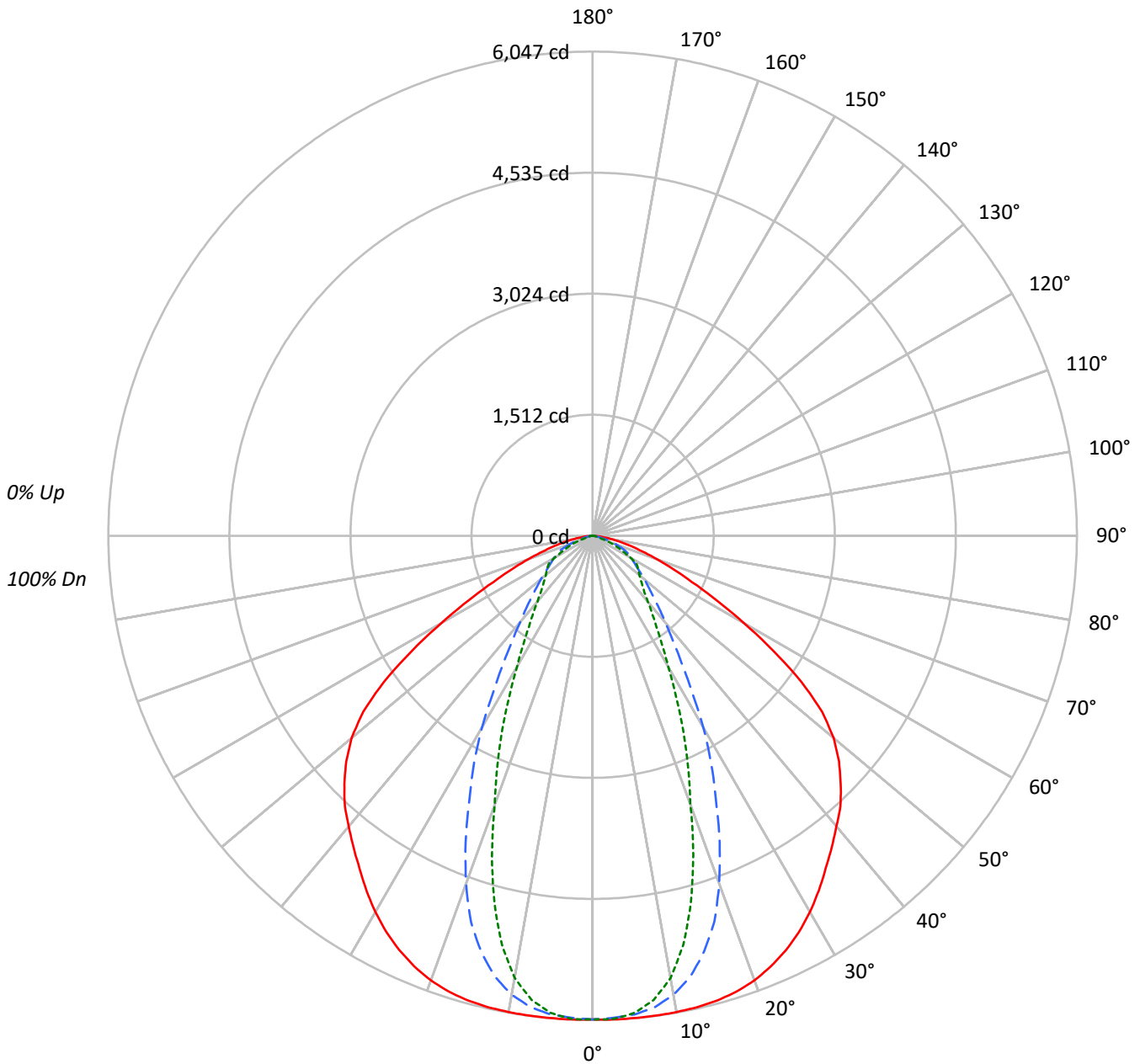
Lumens per Lamp: N/A
Luminaire Lumens: 8520.0 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 64.6
Input Voltage (V): NR
Input Current (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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46	46	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42	42	42	42
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39	39	39	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37159	37159	37159
5°	37333	37050	36943
10°	37725	36339	35013
15°	38264	34238	30189
20°	38676	30248	23373
25°	38753	24699	18111
30°	38536	19617	13404
35°	38096	14536	10424
40°	38036	11288	8603
45°	38116	9290	7642
50°	37576	8035	7289
55°	34112	7162	7364
60°	26817	6845	6711
65°	19919	6634	5050
70°	15277	5311	3082
75°	11631	3788	1702
80°	8540	1760	1374
85°	5342	1517	1221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	6.7
10°-20°	1494.2	17.5
20°-30°	1804.4	21.2
30°-40°	1613.3	18.9
40°-50°	1263.3	14.8
50°-60°	954.6	11.2
60°-70°	566.9	6.7
70°-80°	217.9	2.6
80°-90°	37.9	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°	3866.1	45.4
0°-40°	5479.4	64.3
0°-60°	7697.3	90.3
0°-90°	8520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6041	6041	6041	6041	6041	
5°	6047	6020	6001	5993	5983	577
15°	6009	5811	5377	4927	4741	1698
25°	5710	5039	3639	2869	2669	2629
35°	5074	3610	1936	1510	1388	3182
45°	4382	1867	1068	902	878	3373
55°	3181	1013	668	665	687	2793
65°	1369	569	456	380	347	1410
75°	489	274	159	79	72	536
85°	76	26	22	19	17	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6041.4	6041.4	6041.4	6041.4	6041.4
2.5°	6047.0	6027.0	6025.5	6038.3	6040.2
5°	6046.6	6020.3	6000.7	5992.8	5983.3
7.5°	6044.8	6004.8	5938.9	5875.6	5846.2
10°	6040.2	5969.4	5818.3	5674.4	5605.9
12.5°	6030.4	5906.1	5639.4	5375.0	5231.1
15°	6009.0	5810.8	5376.8	4927.4	4740.9
17.5°	5970.2	5679.3	5055.1	4420.7	4180.8
20°	5908.8	5512.1	4621.2	3842.9	3570.9
22.5°	5820.6	5293.6	4143.1	3322.6	3105.3
25°	5710.2	5038.6	3639.4	2869.4	2668.6
27.5°	5579.1	4740.9	3205.5	2447.5	2249.7
30°	5425.8	4393.2	2762.1	2048.9	1887.3
32.5°	5254.4	4027.1	2299.1	1744.9	1612.0
35°	5073.6	3610.4	1935.9	1509.5	1388.2
37.5°	4903.3	3164.4	1639.5	1301.2	1216.0
40°	4737.2	2695.8	1405.9	1136.5	1071.4
42.5°	4580.5	2247.5	1227.3	998.7	956.1
45°	4381.9	1867.0	1068.0	902.2	878.5
47.5°	4171.4	1575.8	941.4	823.9	815.6
50°	3926.9	1342.2	839.7	755.7	761.7
52.5°	3609.7	1157.6	743.3	707.5	725.2
55°	3181.0	1013.0	667.9	665.3	686.7
57.5°	2678.8	874.7	608.4	625.0	649.1
60°	2180.0	763.6	556.4	580.5	545.5
62.5°	1741.5	661.5	507.1	463.0	432.8
65°	1368.6	568.8	455.8	380.1	347.0
67.5°	1091.3	482.6	383.5	302.5	275.0
70°	849.5	405.7	295.3	227.2	171.4
72.5°	651.0	339.0	230.5	129.2	97.6
75°	489.4	273.5	159.4	78.7	71.6
77.5°	348.8	203.0	85.1	56.9	52.7
80°	241.1	130.3	49.7	41.1	38.8
82.5°	149.6	62.9	33.9	29.4	27.5
85°	75.7	26.4	21.5	18.8	17.3
87.5°	25.2	12.8	9.8	9.0	8.3
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)