

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: P565433

Luminaire Tested: **VHB-12-N-UNV-L940-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565433
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-12-N-UNV-L940-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

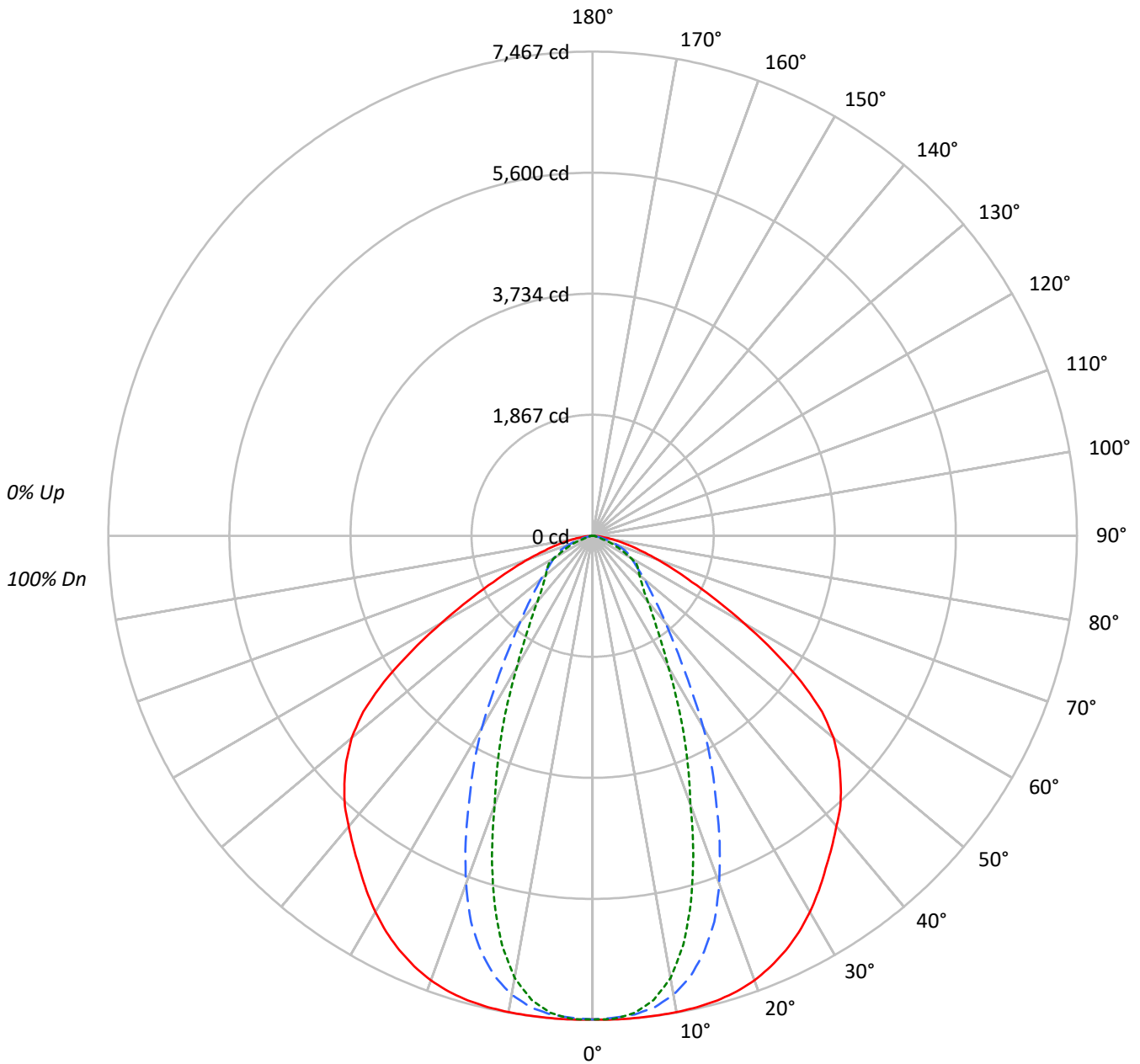
Lumens per Lamp: N/A
Luminaire Lumens: 10521.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 87
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								
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°	45886	45886	45886
5°	46102	45751	45619
10°	46585	44874	43236
15°	47250	42279	37279
20°	47759	37352	28863
25°	47855	30501	22365
30°	47586	24225	16553
35°	47044	17950	12871
40°	46969	13940	10623
45°	47069	11472	9436
50°	46401	9922	9001
55°	42123	8845	9094
60°	33116	8452	8286
65°	24596	8192	6235
70°	18865	6559	3807
75°	14361	4677	2101
80°	10545	2175	1697
85°	6599	1870	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.9	6.7
10°-20°	1845.1	17.5
20°-30°	2228.1	21.2
30°-40°	1992.2	18.9
40°-50°	1560.0	14.8
50°-60°	1178.7	11.2
60°-70°	700.1	6.7
70°-80°	269.0	2.6
80°-90°	46.8	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°	4774.1	45.4
0°-40°	6766.3	64.3
0°-60°	9505.1	90.3
0°-90°	10521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7460	7460	7460	7460	7460	
5°	7467	7434	7410	7400	7389	712
15°	7420	7176	6640	6085	5854	2097
25°	7051	6222	4494	3543	3295	3247
35°	6265	4458	2391	1864	1714	3929
45°	5411	2306	1319	1114	1085	4165
55°	3928	1251	825	822	848	3449
65°	1690	702	563	469	428	1741
75°	604	338	197	97	88	662
85°	94	33	26	23	21	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7460.2	7460.2	7460.2	7460.2	7460.2
2.5°	7467.2	7442.6	7440.7	7456.5	7458.8
5°	7466.7	7434.2	7410.0	7400.2	7388.6
7.5°	7464.4	7415.1	7333.7	7255.6	7219.3
10°	7458.8	7371.4	7184.8	7007.1	6922.5
12.5°	7446.7	7293.2	6963.9	6637.3	6459.6
15°	7420.2	7175.5	6639.6	6084.7	5854.4
17.5°	7372.3	7013.2	6242.4	5459.0	5162.7
20°	7296.5	6806.6	5706.5	4745.4	4409.5
22.5°	7187.6	6536.8	5116.1	4103.0	3834.6
25°	7051.3	6221.9	4494.2	3543.3	3295.4
27.5°	6889.4	5854.4	3958.3	3022.3	2778.1
30°	6700.1	5425.0	3410.8	2530.2	2330.6
32.5°	6488.5	4972.9	2839.0	2154.8	1990.5
35°	6265.2	4458.4	2390.6	1864.0	1714.2
37.5°	6054.9	3907.6	2024.5	1606.8	1501.6
40°	5849.7	3328.9	1736.1	1403.5	1323.0
42.5°	5656.2	2775.3	1515.6	1233.2	1180.6
45°	5411.1	2305.5	1318.8	1114.1	1084.8
47.5°	5151.0	1945.9	1162.5	1017.4	1007.1
50°	4849.1	1657.5	1036.9	933.2	940.6
52.5°	4457.4	1429.5	917.8	873.6	895.5
55°	3928.1	1250.9	824.8	821.5	848.0
57.5°	3308.0	1080.2	751.3	771.7	801.5
60°	2692.0	942.9	687.1	716.9	673.6
62.5°	2150.6	816.9	626.1	571.7	534.5
65°	1690.0	702.4	562.9	469.4	428.4
67.5°	1347.7	595.9	473.6	373.5	339.6
70°	1049.0	501.0	364.7	280.5	211.7
72.5°	803.8	418.7	284.7	159.6	120.5
75°	604.3	337.7	196.8	97.2	88.4
77.5°	430.8	250.7	105.1	70.2	65.1
80°	297.7	161.0	61.4	50.7	47.9
82.5°	184.7	77.7	41.9	36.3	34.0
85°	93.5	32.6	26.5	23.3	21.4
87.5°	31.2	15.8	12.1	11.2	10.2
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)