

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: P565463

Luminaire Tested: **VHB-18-W-UNV-L940-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565463
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-L940-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

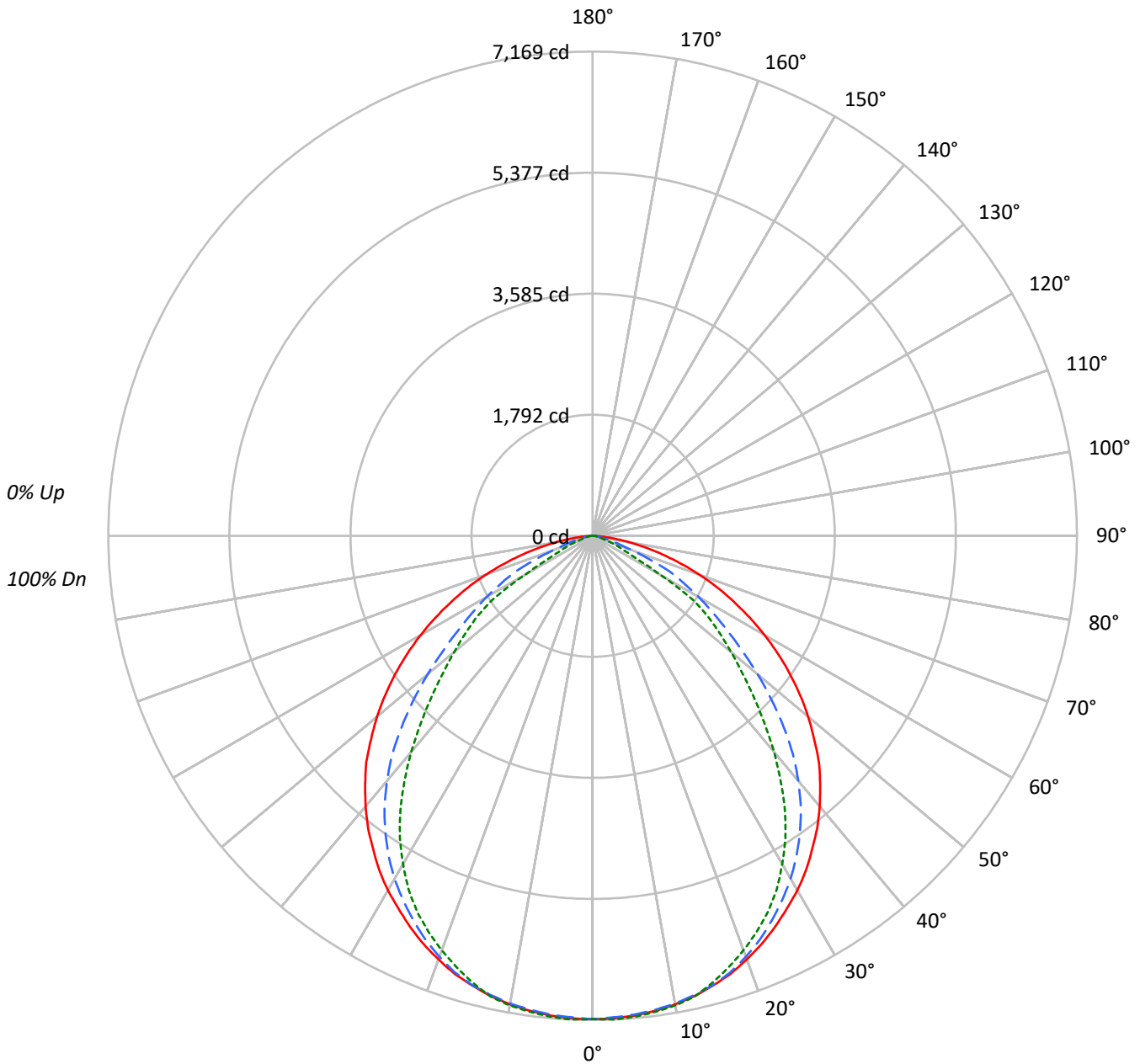
Lumens per Lamp: N/A
Luminaire Lumens: 16096.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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°	44016	44016	44016
5°	44023	43934	44135
10°	44007	43912	44093
15°	43903	43857	43631
20°	43691	43420	42742
25°	43367	42630	41694
30°	43052	41647	39866
35°	42538	40187	37276
40°	41979	38027	33540
45°	41215	34778	29305
50°	39854	30448	25600
55°	38226	25937	22347
60°	36111	22246	14266
65°	33463	18556	7564
70°	30202	10546	4901
75°	25374	6459	3049
80°	19280	3262	2671
85°	11715	2964	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.5	4.2
10°-20°	1938.4	12.0
20°-30°	2889.5	18.0
30°-40°	3327.7	20.7
40°-50°	3096.9	19.2
50°-60°	2356.5	14.6
60°-70°	1264.9	7.9
70°-80°	465.4	2.9
80°-90°	79.1	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°	5505.4	34.2
0°-40°	8833.1	54.9
0°-60°	14286.5	88.8
0°-90°	16096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7156	7156	7156	7156	7156	
5°	7130	7110	7116	7140	7148	678
15°	6895	6884	6887	6874	6852	1946
25°	6390	6385	6281	6192	6144	2945
35°	5665	5596	5352	5083	4964	3547
45°	4738	4510	3998	3523	3369	3641
55°	3565	3162	2419	2154	2084	3184
65°	2299	1689	1275	631	520	2280
75°	1068	700	272	141	128	1144
85°	166	54	42	36	34	221
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7156.2	7156.2	7156.2	7156.2	<i>7156.2</i>
2.5°	<i>7151.1</i>	<i>7129.4</i>	<i>7136.6</i>	<i>7159.8</i>	<i>7169.3</i>
5°	7130.1	7109.8	7115.6	7140.3	<i>7148.2</i>
7.5°	7095.3	7075.8	7080.1	7103.3	<i>7111.3</i>
10°	7046.0	7025.7	7030.8	7053.3	<i>7059.8</i>
12.5°	6979.4	6960.5	6964.9	6980.8	<i>6988.1</i>
15°	6894.6	6883.7	6887.3	6874.3	<i>6851.8</i>
17.5°	6799.6	6783.7	6779.3	6721.3	<i>6697.4</i>
20°	6674.9	6669.1	6633.6	6561.9	<i>6530.0</i>
22.5°	6543.7	6532.9	6471.3	6385.0	<i>6346.6</i>
25°	6390.1	6385.0	6281.4	6192.2	<i>6143.6</i>
27.5°	6224.8	6212.5	6079.1	5967.5	<i>5901.5</i>
30°	6061.7	6031.3	5863.9	5707.3	<i>5613.1</i>
32.5°	5876.9	5819.6	5619.6	5419.5	<i>5310.8</i>
35°	5665.2	5596.4	5352.1	5083.2	<i>4964.3</i>
37.5°	5460.1	5356.5	5062.2	4725.9	<i>4573.7</i>
40°	5228.2	5079.6	4736.0	4345.3	<i>4177.2</i>
42.5°	4983.9	4802.7	4388.8	3934.4	<i>3761.9</i>
45°	4738.2	4509.9	3998.1	3523.4	<i>3369.0</i>
47.5°	4446.1	4204.0	3592.2	3131.3	<i>2998.6</i>
50°	4164.9	3882.2	3182.0	2765.9	<i>2675.3</i>
52.5°	3870.6	3527.7	2783.3	2457.2	<i>2369.5</i>
55°	3564.7	3161.7	2418.7	2153.5	<i>2083.9</i>
57.5°	3257.4	2785.5	2095.5	1877.3	<i>1752.6</i>
60°	2935.5	2412.2	1808.4	1525.8	<i>1159.7</i>
62.5°	2618.8	2023.7	1522.1	956.8	<i>737.9</i>
65°	2299.2	1688.8	1275.0	631.3	<i>519.7</i>
67.5°	1994.0	1364.8	909.7	457.4	<i>389.2</i>
70°	1679.4	1116.2	586.4	327.6	<i>272.5</i>
72.5°	1364.1	898.1	402.3	215.3	<i>174.7</i>
75°	1067.7	699.5	271.8	140.6	<i>128.3</i>
77.5°	800.2	482.7	151.5	104.4	<i>97.9</i>
80°	544.3	289.2	92.1	79.7	<i>75.4</i>
82.5°	326.2	138.4	66.7	58.7	<i>56.5</i>
85°	166.0	53.6	42.0	36.2	<i>34.1</i>
87.5°	49.3	26.8	18.8	14.5	<i>13.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)