

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: P565471

Luminaire Tested: **VHB-24-W-UNV-L735-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565471
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-24-W-UNV-L735-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

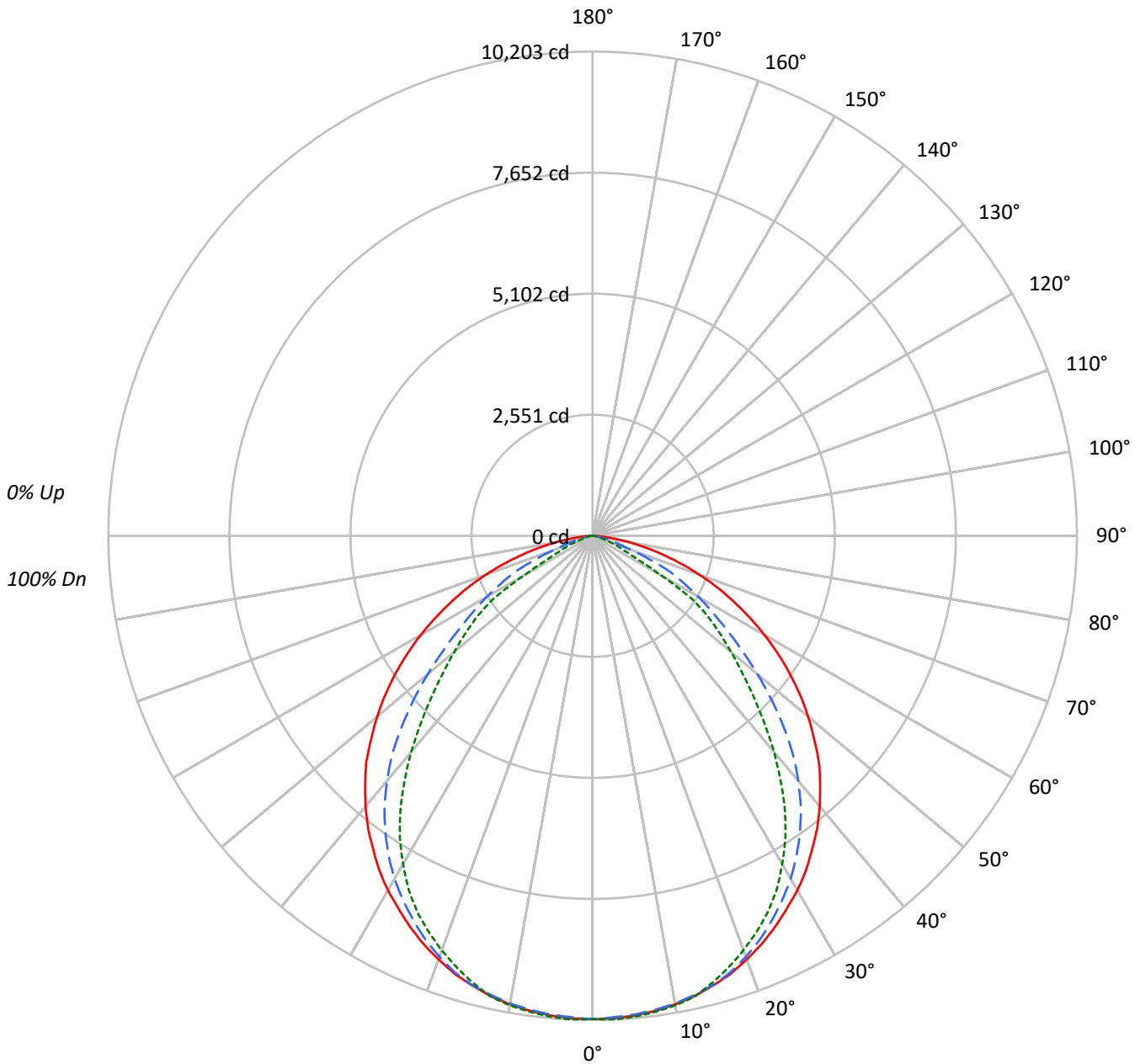
Lumens per Lamp: N/A
Luminaire Lumens: 22907.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 174.1
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

TEST NUMBER: P565471

CATALOG NUMBER: VHB-24-W-UNV-L735-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P565471

CATALOG NUMBER: VHB-24-W-UNV-L735-CD1-U

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	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°	62642	62642	62642
5°	62652	62525	62811
10°	62629	62494	62752
15°	62481	62415	62093
20°	62179	61794	60828
25°	61718	60668	59338
30°	61270	59270	56735
35°	60539	57193	53049
40°	59742	54118	47732
45°	58656	49495	41706
50°	56717	43332	36433
55°	54402	36913	31803
60°	51392	31661	20304
65°	47621	26408	10764
70°	42983	15007	6976
75°	36111	9192	4339
80°	27441	4640	3801
85°	16669	4220	3423



TEST NUMBER: P565471

CATALOG NUMBER: VHB-24-W-UNV-L735-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.2	4.2
10°-20°	2758.6	12.0
20°-30°	4112.1	18.0
30°-40°	4735.8	20.7
40°-50°	4407.4	19.2
50°-60°	3353.7	14.6
60°-70°	1800.2	7.9
70°-80°	662.3	2.9
80°-90°	112.6	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°	7834.9	34.2
0°-40°	12570.8	54.9
0°-60°	20331.9	88.8
0°-90°	22907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10184	10184	10184	10184	10184	
5°	10147	10118	10127	10162	10173	965
15°	9812	9796	9802	9783	9751	2769
25°	9094	9087	8939	8812	8743	4192
35°	8062	7964	7617	7234	7065	5047
45°	6743	6418	5690	5014	4795	5182
55°	5073	4500	3442	3065	2966	4531
65°	3272	2404	1814	898	740	3245
75°	1520	995	387	200	183	1629
85°	236	76	60	52	48	315
90°	0	0	0	0	0	



TEST NUMBER: P565471

CATALOG NUMBER: VHB-24-W-UNV-L735-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10184.4	10184.4	10184.4	10184.4	10184.4
2.5°	10177.1	10146.2	10156.5	10189.5	10202.9
5°	10147.2	10118.3	10126.6	10161.7	10173.0
7.5°	10097.7	10069.9	10076.0	10109.1	10120.4
10°	10027.6	9998.7	10005.9	10037.9	10047.2
12.5°	9932.7	9905.8	9912.0	9934.7	9945.0
15°	9812.0	9796.5	9801.7	9783.1	9751.1
17.5°	9676.8	9654.1	9648.0	9565.4	9531.4
20°	9499.4	9491.2	9440.6	9338.5	9293.1
22.5°	9312.7	9297.2	9209.6	9086.8	9032.1
25°	9094.0	9086.8	8939.3	8812.4	8743.3
27.5°	8858.8	8841.3	8651.5	8492.6	8398.8
30°	8626.7	8583.4	8345.1	8122.3	7988.2
32.5°	8363.7	8282.2	7997.5	7712.8	7558.1
35°	8062.5	7964.5	7616.9	7234.2	7065.0
37.5°	7770.6	7623.1	7204.3	6725.6	6509.0
40°	7440.5	7229.0	6740.1	6184.1	5944.7
42.5°	7092.8	6835.0	6246.0	5599.2	5353.7
45°	6743.2	6418.2	5690.0	5014.3	4794.6
47.5°	6327.4	5982.9	5112.3	4456.2	4267.5
50°	5927.2	5524.9	4528.4	3936.3	3807.4
52.5°	5508.4	5020.5	3961.1	3496.9	3372.1
55°	5073.1	4499.6	3442.2	3064.7	2965.7
57.5°	4635.7	3964.2	2982.2	2671.7	2494.3
60°	4177.7	3433.0	2573.7	2171.4	1650.5
62.5°	3726.9	2880.0	2166.2	1361.6	1050.1
65°	3272.0	2403.5	1814.5	898.5	739.6
67.5°	2837.8	1942.4	1294.6	650.9	553.9
70°	2390.1	1588.6	834.5	466.3	387.9
72.5°	1941.4	1278.1	572.5	306.4	248.6
75°	1519.5	995.4	386.8	200.1	182.6
77.5°	1138.8	687.0	215.6	148.5	139.3
80°	774.7	411.6	131.0	113.5	107.3
82.5°	464.2	197.0	94.9	83.6	80.5
85°	236.2	76.3	59.8	51.6	48.5
87.5°	70.1	38.2	26.8	20.6	19.6
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)