

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: P563253

Luminaire Tested: **VHB-12-N-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-N-UNV-L835-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

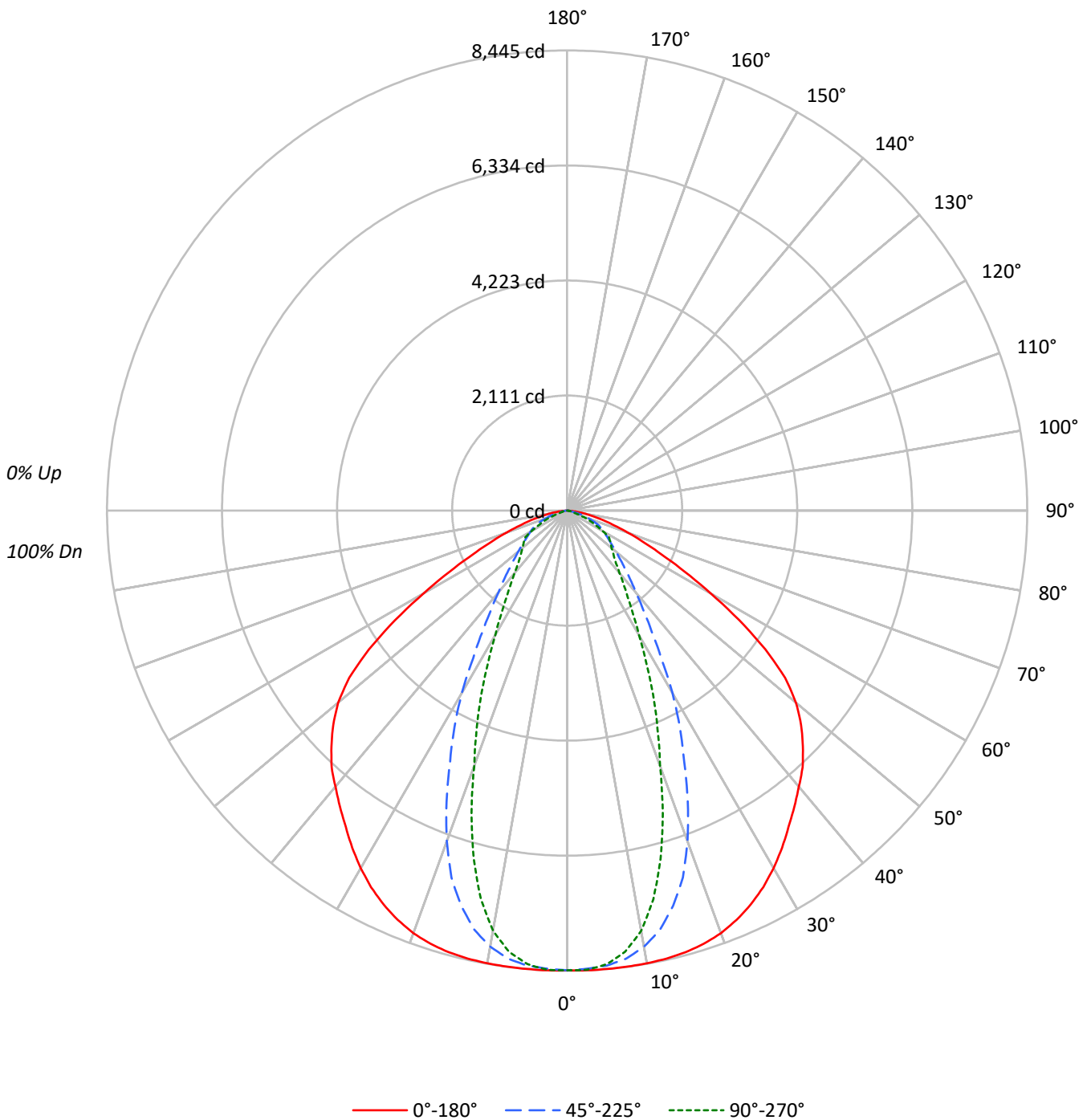
Lumens per Lamp: N/A
Luminaire Lumens: 11899.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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				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	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°	49166	49166	49166
5°	49397	49022	48880
10°	49915	48082	46326
15°	50627	45302	39943
20°	51173	40022	30926
25°	51275	32680	23963
30°	50988	25956	17735
35°	50405	19233	13791
40°	50327	14936	11382
45°	50433	12291	10111
50°	49717	10631	9644
55°	45133	9477	9744
60°	35484	9057	8878
65°	26355	8778	6682
70°	20213	7026	4079
75°	15386	5012	2249
80°	11299	2332	1819
85°	7067	2006	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.7	6.7
10°-20°	2086.7	17.5
20°-30°	2520.0	21.2
30°-40°	2253.2	18.9
40°-50°	1764.4	14.8
50°-60°	1333.1	11.2
60°-70°	791.8	6.7
70°-80°	304.3	2.6
80°-90°	52.9	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°	5399.4	45.4
0°-40°	7652.6	64.3
0°-60°	10750.1	90.3
0°-90°	11899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8437	8437	8437	8437	8437	
5°	8445	8408	8381	8370	8356	806
15°	8392	8115	7509	6882	6621	2371
25°	7975	7037	5083	4007	3727	3672
35°	7086	5042	2704	2108	1939	4443
45°	6120	2608	1492	1260	1227	4711
55°	4442	1415	933	929	959	3901
65°	1911	794	637	531	485	1969
75°	683	382	223	110	100	748
85°	106	37	30	26	24	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8437.3	8437.3	8437.3	8437.3	8437.3
2.5°	8445.3	8417.4	8415.2	8433.1	8435.8
5°	8444.7	8407.8	8380.6	8369.5	8356.3
7.5°	8442.1	8386.3	8294.3	8205.9	8164.8
10°	8435.8	8336.9	8125.9	7924.9	7829.2
12.5°	8422.1	8248.5	7876.0	7506.6	7305.6
15°	8392.1	8115.4	7509.3	6881.6	6621.1
17.5°	8337.9	7931.7	7060.0	6174.0	5838.8
20°	8252.1	7698.2	6453.9	5366.9	4987.1
22.5°	8129.0	7393.0	5786.2	4640.3	4336.8
25°	7974.9	7036.9	5082.8	4007.4	3727.0
27.5°	7791.8	6621.1	4476.7	3418.2	3141.9
30°	7577.7	6135.6	3857.5	2861.5	2635.8
32.5°	7338.3	5624.2	3210.9	2436.9	2251.3
35°	7085.7	5042.3	2703.7	2108.1	1938.7
37.5°	6847.9	4419.3	2289.7	1817.3	1698.3
40°	6616.0	3764.9	1963.5	1587.3	1496.3
42.5°	6397.1	3138.9	1714.1	1394.8	1335.2
45°	6119.8	2607.5	1491.5	1260.1	1226.9
47.5°	5825.7	2200.7	1314.7	1150.6	1139.0
50°	5484.2	1874.6	1172.7	1055.4	1063.8
52.5°	5041.2	1616.8	1038.0	988.0	1012.8
55°	4442.5	1414.8	932.8	929.1	959.1
57.5°	3741.2	1221.7	849.6	872.8	906.5
60°	3044.7	1066.5	777.1	810.7	761.8
62.5°	2432.3	923.9	708.2	646.6	604.6
65°	1911.4	794.4	636.6	530.9	484.6
67.5°	1524.2	673.9	535.6	422.5	384.1
70°	1186.4	566.6	412.4	317.3	239.4
72.5°	909.2	473.6	321.9	180.5	136.3
75°	683.4	382.0	222.6	110.0	99.9
77.5°	487.2	283.6	118.9	79.4	73.7
80°	336.7	182.1	69.5	57.3	54.2
82.5°	208.9	87.9	47.4	41.0	38.4
85°	105.7	36.8	30.0	26.3	24.2
87.5°	35.2	17.9	13.6	12.6	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)