

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: P563325

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

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-12-W-UNV-L835-CD  
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

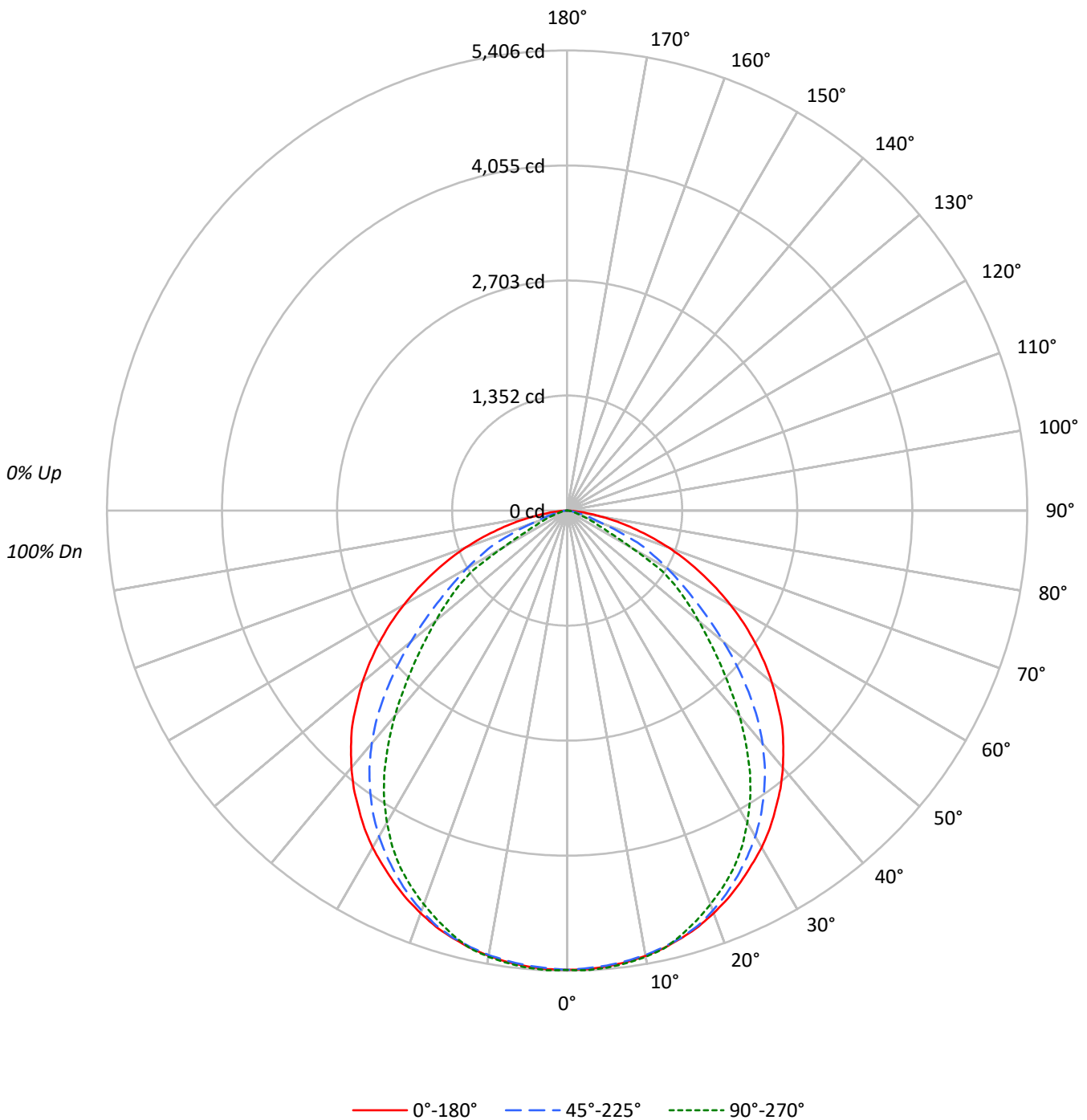
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12136.0 lumens  
Efficiency: N/A  
Efficacy: 151.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
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	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°	31441	31441	31441
5°	31446	31382	31526
10°	31434	31367	31496
15°	31360	31327	31166
20°	31209	31016	30531
25°	30978	30451	29783
30°	30753	29749	28476
35°	30386	28706	26627
40°	29985	27163	23958
45°	29441	24842	20933
50°	28467	21749	18286
55°	27305	18528	15962
60°	25796	15891	10191
65°	23902	13255	5402
70°	21573	7532	3501
75°	18124	4615	2177
80°	13772	2329	1906
85°	8371	2119	1718



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.8	4.2
10°-20°	1461.5	12.0
20°-30°	2178.6	18.0
30°-40°	2509.0	20.7
40°-50°	2335.0	19.2
50°-60°	1776.8	14.6
60°-70°	953.7	7.9
70°-80°	350.9	2.9
80°-90°	59.7	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°	4150.9	34.2
0°-40°	6659.9	54.9
0°-60°	10771.7	88.8
0°-90°	12136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5396	5396	5396	5396	5396	
5°	5376	5361	5365	5384	5390	511
15°	5198	5190	5193	5183	5166	1467
25°	4818	4814	4736	4669	4632	2221
35°	4272	4220	4035	3833	3743	2674
45°	3572	3400	3014	2657	2540	2745
55°	2688	2384	1824	1624	1571	2401
65°	1734	1273	961	476	392	1719
75°	805	527	205	106	97	863
85°	125	40	32	27	26	167
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5395.6	5395.6	5395.6	5395.6	5395.6
2.5°	5391.8	5375.4	5380.9	5398.4	5405.5
5°	5375.9	5360.6	5365.0	5383.6	5389.6
7.5°	5349.7	5335.0	5338.3	5355.7	5361.8
10°	5312.5	5297.3	5301.1	5318.0	5322.9
12.5°	5262.2	5248.1	5251.4	5263.4	5268.8
15°	5198.3	5190.1	5192.9	5183.0	5166.1
17.5°	5126.8	5114.7	5111.4	5067.7	5049.7
20°	5032.8	5028.4	5001.6	4947.5	4923.4
22.5°	4933.8	4925.6	4879.2	4814.1	4785.2
25°	4818.0	4814.1	4736.0	4668.7	4632.1
27.5°	4693.4	4684.1	4583.5	4499.4	4449.6
30°	4570.4	4547.5	4421.2	4303.1	4232.1
32.5°	4431.0	4387.8	4237.0	4086.2	4004.2
35°	4271.5	4219.5	4035.3	3832.6	3743.0
37.5°	4116.8	4038.6	3816.8	3563.2	3448.4
40°	3941.9	3829.9	3570.9	3276.3	3149.5
42.5°	3757.7	3621.1	3309.1	2966.4	2836.3
45°	3572.5	3400.4	3014.5	2656.6	2540.1
47.5°	3352.2	3169.7	2708.5	2360.9	2260.9
50°	3140.2	2927.1	2399.1	2085.5	2017.1
52.5°	2918.3	2659.8	2098.6	1852.6	1786.5
55°	2687.7	2383.8	1823.7	1623.7	1571.2
57.5°	2456.0	2100.2	1580.0	1415.5	1321.5
60°	2213.4	1818.8	1363.5	1150.4	874.4
62.5°	1974.5	1525.8	1147.7	721.4	556.3
65°	1733.5	1273.3	961.3	476.0	391.8
67.5°	1503.4	1029.1	685.8	344.8	293.5
70°	1266.2	841.6	442.1	247.0	205.5
72.5°	1028.5	677.1	303.3	162.3	131.7
75°	805.0	527.4	205.0	106.0	96.7
77.5°	603.3	364.0	114.2	78.7	73.8
80°	410.4	218.1	69.4	60.1	56.8
82.5°	246.0	104.4	50.3	44.3	42.6
85°	125.2	40.4	31.7	27.3	25.7
87.5°	37.2	20.2	14.2	11.0	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)