

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: P364412

Luminaire Tested: **VHB-15-W-UNV-L835-CD-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-15-W-UNV-L835-CD-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 80CRI LEDS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15120.0 lumens  
Efficiency: N/A  
Efficacy: 135.5 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

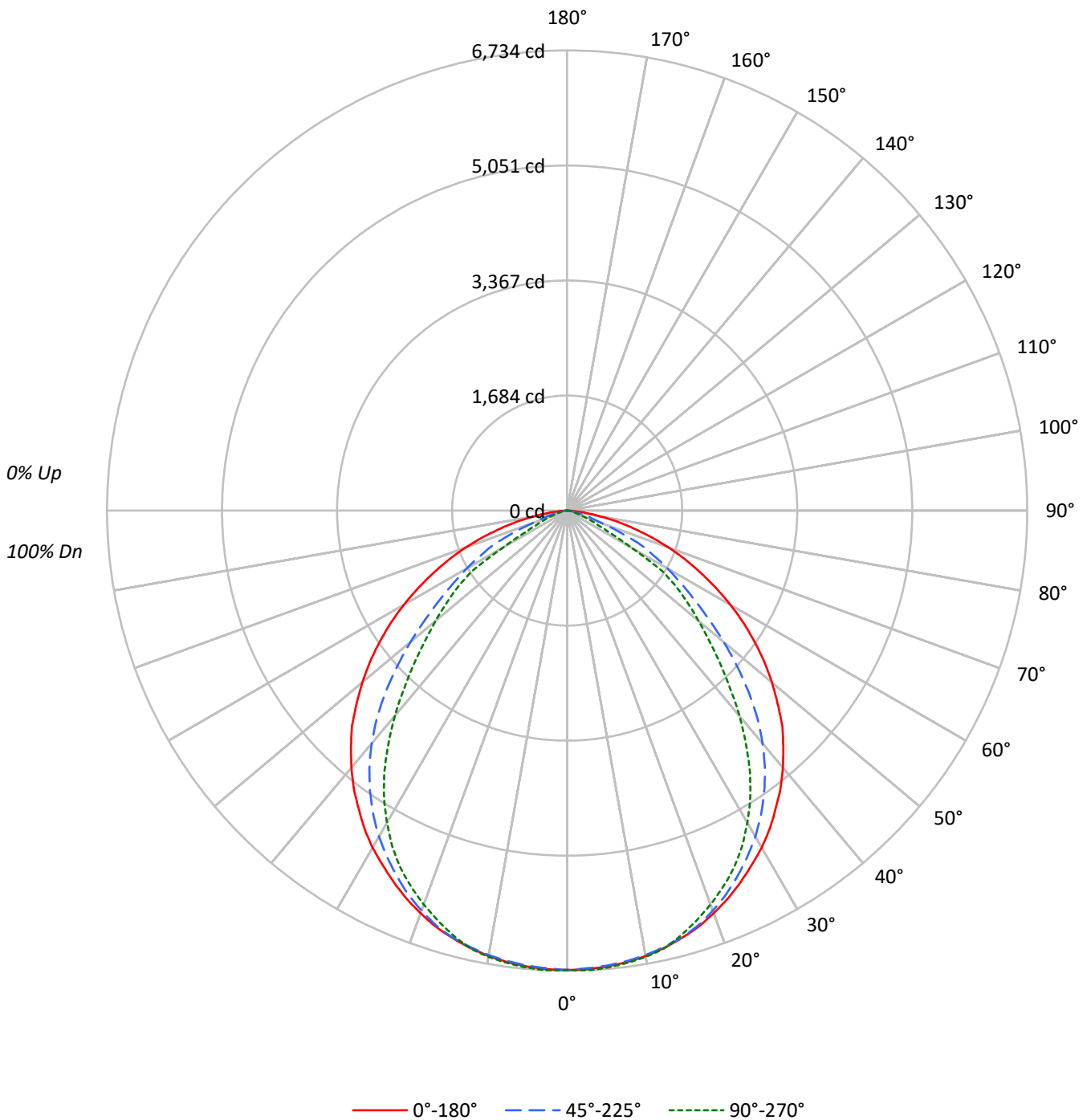
Input Watts (W): 111.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	41347	41347	41347
5°	41354	41270	41459
10°	41339	41250	41419
15°	41241	41198	40985
20°	41042	40788	40150
25°	40738	40045	39166
30°	40442	39122	37448
35°	39959	37751	35015
40°	39433	35721	31506
45°	38716	32669	27528
50°	37437	28602	24048
55°	35908	24365	20991
60°	33922	20898	13401
65°	31432	17431	7105
70°	28371	9905	4604
75°	23834	6067	2864
80°	18111	3064	2508
85°	11002	2788	2258



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.4	4.2
10°-20°	1820.8	12.0
20°-30°	2714.3	18.0
30°-40°	3125.9	20.7
40°-50°	2909.1	19.2
50°-60°	2213.7	14.6
60°-70°	1188.2	7.9
70°-80°	437.2	2.9
80°-90°	74.3	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°	5171.5	34.2
0°-40°	8297.5	54.9
0°-60°	13420.3	88.8
0°-90°	15120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15120.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	6698	6679	6684	6707	6715	637
15°	6476	6466	6470	6457	6436	1828
25°	6003	5998	5900	5817	5771	2767
35°	5322	5257	5028	4775	4663	3331
45°	4451	4236	3756	3310	3165	3420
55°	3348	2970	2272	2023	1958	2991
65°	2160	1586	1198	593	488	2142
75°	1003	657	255	132	120	1075
85°	156	50	40	34	32	208
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6722.3	6722.3	6722.3	6722.3	6722.3
2.5°	6717.5	6697.1	6703.9	6725.7	6734.5
5°	6697.8	6678.7	6684.2	6707.3	6714.8
7.5°	6665.1	6646.7	6650.8	6672.6	6680.1
10°	6618.8	6599.7	6604.5	6625.6	6631.7
12.5°	6556.2	6538.5	6542.5	6557.5	6564.3
15°	6476.5	6466.3	6469.7	6457.4	6436.3
17.5°	6387.3	6372.3	6368.2	6313.8	6291.3
20°	6270.2	6264.7	6231.4	6164.0	6134.0
22.5°	6147.0	6136.7	6078.9	5997.8	5961.8
25°	6002.6	5997.8	5900.5	5816.7	5771.1
27.5°	5847.4	5835.8	5710.5	5605.7	5543.7
30°	5694.2	5665.6	5508.3	5361.2	5272.7
32.5°	5520.5	5466.8	5278.8	5090.9	4988.8
35°	5321.7	5257.0	5027.6	4775.0	4663.3
37.5°	5129.0	5031.7	4755.2	4439.3	4296.3
40°	4911.2	4771.6	4448.8	4081.9	3923.9
42.5°	4681.7	4511.5	4122.7	3695.8	3533.7
45°	4450.9	4236.4	3755.7	3309.7	3164.7
47.5°	4176.5	3949.1	3374.4	2941.4	2816.8
50°	3912.3	3646.8	2989.0	2598.2	2513.1
52.5°	3635.9	3313.8	2614.6	2308.2	2225.8
55°	3348.5	2970.0	2272.1	2022.9	1957.5
57.5°	3059.9	2616.6	1968.4	1763.5	1646.4
60°	2757.5	2266.0	1698.8	1433.2	1089.4
62.5°	2460.0	1901.0	1429.8	898.8	693.1
65°	2159.7	1586.4	1197.7	593.0	488.2
67.5°	1873.1	1282.1	854.5	429.6	365.6
70°	1577.6	1048.5	550.8	307.8	256.0
72.5°	1281.4	843.6	377.9	202.2	164.1
75°	1002.9	657.0	255.3	132.1	120.5
77.5°	751.7	453.5	142.3	98.0	91.9
80°	511.3	271.7	86.5	74.9	70.8
82.5°	306.4	130.0	62.6	55.2	53.1
85°	155.9	50.4	39.5	34.0	32.0
87.5°	46.3	25.2	17.7	13.6	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)