

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: P563334

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

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563334  
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-15-W-UNV-L835-CD  
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

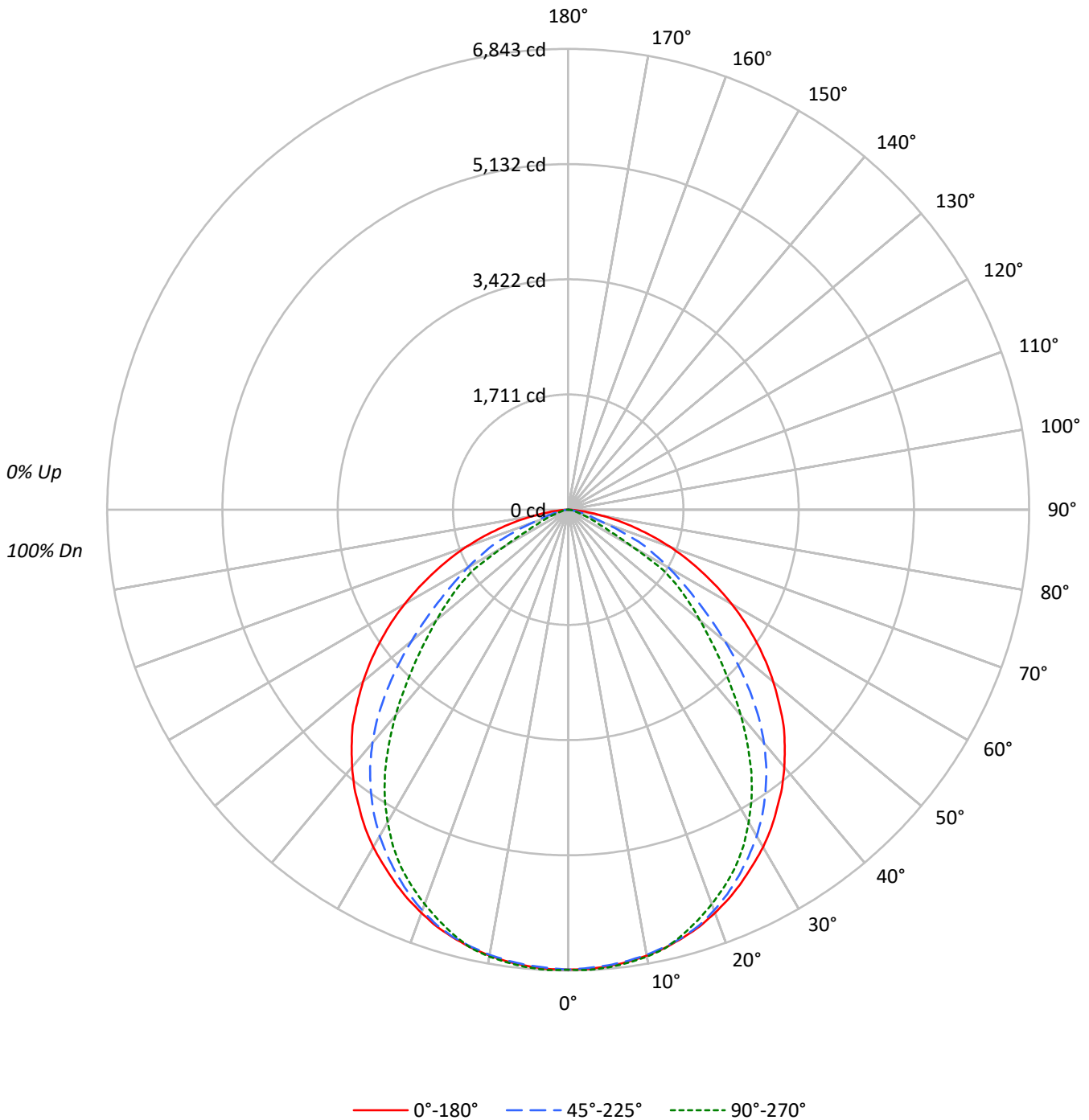
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15363.0 lumens  
Efficiency: N/A  
Efficacy: 147.7 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): 104  
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°	39802	39802	39802
5°	39808	39727	39909
10°	39794	39707	39871
15°	39699	39657	39453
20°	39508	39263	38649
25°	39215	38547	37702
30°	38930	37659	36049
35°	38466	36340	33706
40°	37959	34386	30328
45°	37269	31448	26499
50°	36037	27533	23149
55°	34566	23454	20207
60°	32654	20117	12900
65°	30257	16779	6839
70°	27310	9536	4431
75°	22942	5843	2756
80°	17436	2950	2413
85°	10591	2681	2180



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.7	4.2
10°-20°	1850.1	12.0
20°-30°	2757.9	18.0
30°-40°	3176.2	20.7
40°-50°	2955.9	19.2
50°-60°	2249.2	14.6
60°-70°	1207.3	7.9
70°-80°	444.2	2.9
80°-90°	75.5	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°	5254.6	34.2
0°-40°	8430.8	54.9
0°-60°	13635.9	88.8
0°-90°	15363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6830	6830	6830	6830	6830	
5°	6805	6786	6792	6815	6823	647
15°	6581	6570	6574	6561	6540	1857
25°	6099	6094	5995	5910	5864	2811
35°	5407	5342	5108	4852	4738	3385
45°	4522	4304	3816	3363	3216	3475
55°	3402	3018	2309	2055	1989	3039
65°	2194	1612	1217	603	496	2176
75°	1019	668	260	134	122	1092
85°	158	51	40	35	33	211
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6830.4	6830.4	6830.4	6830.4	6830.4
2.5°	6825.5	6804.7	6811.7	6833.8	6842.8
5°	6805.4	6786.0	6791.5	6815.1	6822.7
7.5°	6772.2	6753.5	6757.7	6779.8	6787.5
10°	6725.2	6705.8	6710.6	6732.1	6738.3
12.5°	6661.5	6643.5	6647.7	6662.9	6669.8
15°	6580.6	6570.2	6573.7	6561.2	6539.8
17.5°	6490.0	6474.7	6470.6	6415.3	6392.4
20°	6371.0	6365.5	6331.5	6263.1	6232.6
22.5°	6245.7	6235.3	6176.5	6094.2	6057.6
25°	6099.1	6094.2	5995.3	5910.2	5863.8
27.5°	5941.4	5929.6	5802.3	5695.8	5632.7
30°	5785.7	5756.6	5596.8	5447.4	5357.5
32.5°	5609.3	5554.6	5363.7	5172.7	5069.0
35°	5407.3	5341.5	5108.4	4851.7	4738.2
37.5°	5211.5	5112.5	4831.6	4510.7	4365.4
40°	4990.1	4848.2	4520.4	4147.4	3986.9
42.5°	4756.9	4584.0	4189.0	3755.2	3590.5
45°	4522.4	4304.5	3816.1	3362.9	3215.6
47.5°	4243.6	4012.6	3428.7	2988.6	2862.0
50°	3975.2	3705.4	3037.1	2640.0	2553.5
52.5°	3694.3	3367.1	2656.6	2345.3	2261.6
55°	3402.4	3017.7	2308.6	2055.4	1989.0
57.5°	3109.0	2658.7	2000.1	1791.8	1672.9
60°	2801.9	2302.4	1726.1	1456.3	1106.9
62.5°	2499.5	1931.5	1452.8	913.2	704.2
65°	2194.4	1611.9	1216.9	602.6	496.0
67.5°	1903.2	1302.7	868.2	436.5	371.5
70°	1602.9	1065.4	559.7	312.7	260.1
72.5°	1302.0	857.2	384.0	205.5	166.7
75°	1019.0	667.6	259.5	134.2	122.4
77.5°	763.7	460.7	144.6	99.6	93.4
80°	519.6	276.1	87.9	76.1	71.9
82.5°	311.3	132.1	63.7	56.0	54.0
85°	158.4	51.2	40.1	34.6	32.6
87.5°	47.1	25.6	18.0	13.9	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)