

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: P563262

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

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563262  
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-15-N-UNV-L835-CD  
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

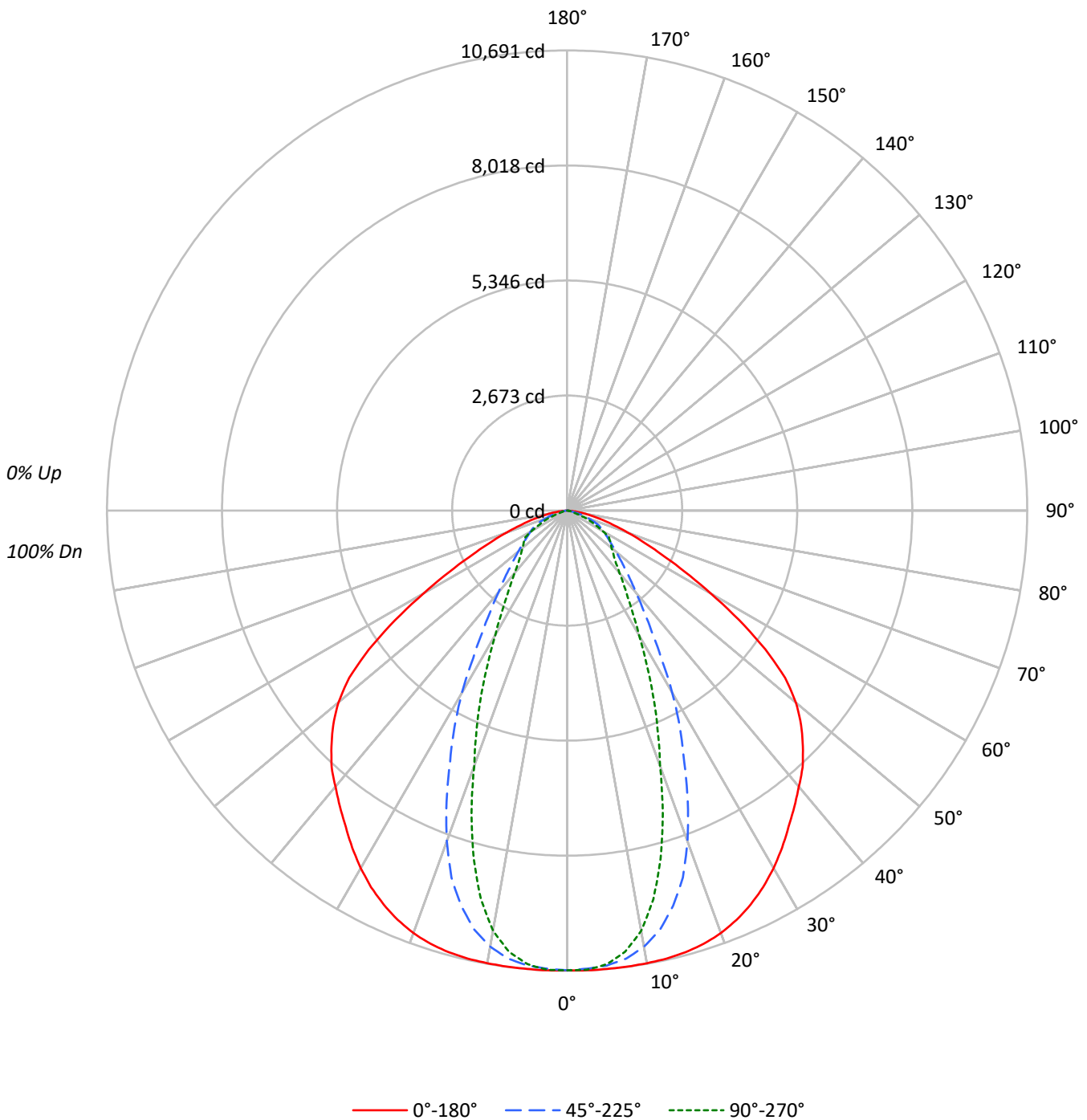
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15063.0 lumens  
Efficiency: N/A  
Efficacy: 144.8 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): 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	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					100			
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	62239	62239	62239
5°	62531	62057	61877
10°	63188	60867	58644
15°	64090	57348	50565
20°	64780	50664	39149
25°	64910	41371	30335
30°	64546	32857	22452
35°	63809	24348	17458
40°	63709	18908	14409
45°	63843	15560	12800
50°	62937	13458	12208
55°	57134	11996	12336
60°	44919	11464	11239
65°	33364	11112	8459
70°	25589	8895	5164
75°	19477	6345	2848
80°	14302	2953	2302
85°	8946	2534	2046



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1003.5	6.7
10°-20°	2641.6	17.5
20°-30°	3190.0	21.2
30°-40°	2852.3	18.9
40°-50°	2233.5	14.8
50°-60°	1687.6	11.2
60°-70°	1002.3	6.7
70°-80°	385.2	2.6
80°-90°	66.9	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°	6835.1	45.4
0°-40°	9687.4	64.3
0°-60°	13608.5	90.3
0°-90°	15063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10681	10681	10681	10681	10681	
5°	10690	10644	10609	10595	10578	###
15°	10624	10273	9506	8711	8382	3002
25°	10096	8908	6434	5073	4718	4648
35°	8970	6383	3423	2669	2454	5625
45°	7747	3301	1888	1595	1553	5963
55°	5624	1791	1181	1176	1214	4939
65°	2420	1006	806	672	614	2493
75°	865	484	282	139	126	947
85°	134	47	38	33	31	178
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10680.8	10680.8	10680.8	10680.8	10680.8
2.5°	10690.9	10655.6	10652.8	10675.5	10678.9
5°	10690.1	10643.5	10609.0	10595.0	10578.2
7.5°	10686.9	10616.3	10499.7	10387.8	10335.9
10°	10678.9	10553.7	10286.6	10032.2	9911.0
12.5°	10661.5	10441.8	9970.2	9502.7	9248.2
15°	10623.6	10273.3	9506.1	8711.4	8381.7
17.5°	10554.9	10040.8	8937.2	7815.7	7391.4
20°	10446.4	9745.1	8170.0	6794.0	6313.1
22.5°	10290.5	9358.9	7324.8	5874.2	5490.0
25°	10095.5	8908.0	6434.4	5073.0	4718.0
27.5°	9863.7	8381.7	5667.1	4327.1	3977.4
30°	9592.7	7767.0	4883.2	3622.4	3336.7
32.5°	9289.6	7119.7	4064.7	3084.9	2849.9
35°	8969.9	6383.1	3422.7	2668.7	2454.2
37.5°	8668.8	5594.5	2898.6	2300.5	2149.9
40°	8375.2	4766.0	2485.6	2009.4	1894.2
42.5°	8098.1	3973.5	2169.9	1765.6	1690.3
45°	7747.1	3300.8	1888.1	1595.1	1553.2
47.5°	7374.7	2785.9	1664.3	1456.5	1441.9
50°	6942.5	2373.1	1484.5	1336.0	1346.6
52.5°	6381.7	2046.7	1314.0	1250.7	1282.1
55°	5623.8	1791.0	1180.8	1176.1	1214.2
57.5°	4736.0	1546.5	1075.6	1104.9	1147.5
60°	3854.3	1350.0	983.7	1026.3	964.4
62.5°	3079.0	1169.6	896.5	818.5	765.3
65°	2419.7	1005.6	805.9	672.1	613.5
67.5°	1929.5	853.1	678.0	534.8	486.2
70°	1501.9	717.3	522.1	401.6	303.1
72.5°	1150.9	599.5	407.5	228.5	172.5
75°	865.1	483.5	281.8	139.3	126.5
77.5°	616.7	359.0	150.5	100.6	93.3
80°	426.2	230.5	88.0	72.6	68.6
82.5°	264.4	111.3	60.0	51.9	48.6
85°	133.8	46.6	37.9	33.3	30.6
87.5°	44.6	22.7	17.3	16.0	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)