

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: P563331

Luminaire Tested: **VHB-15-W-UNV-L735-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563331  
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-L735-CD  
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

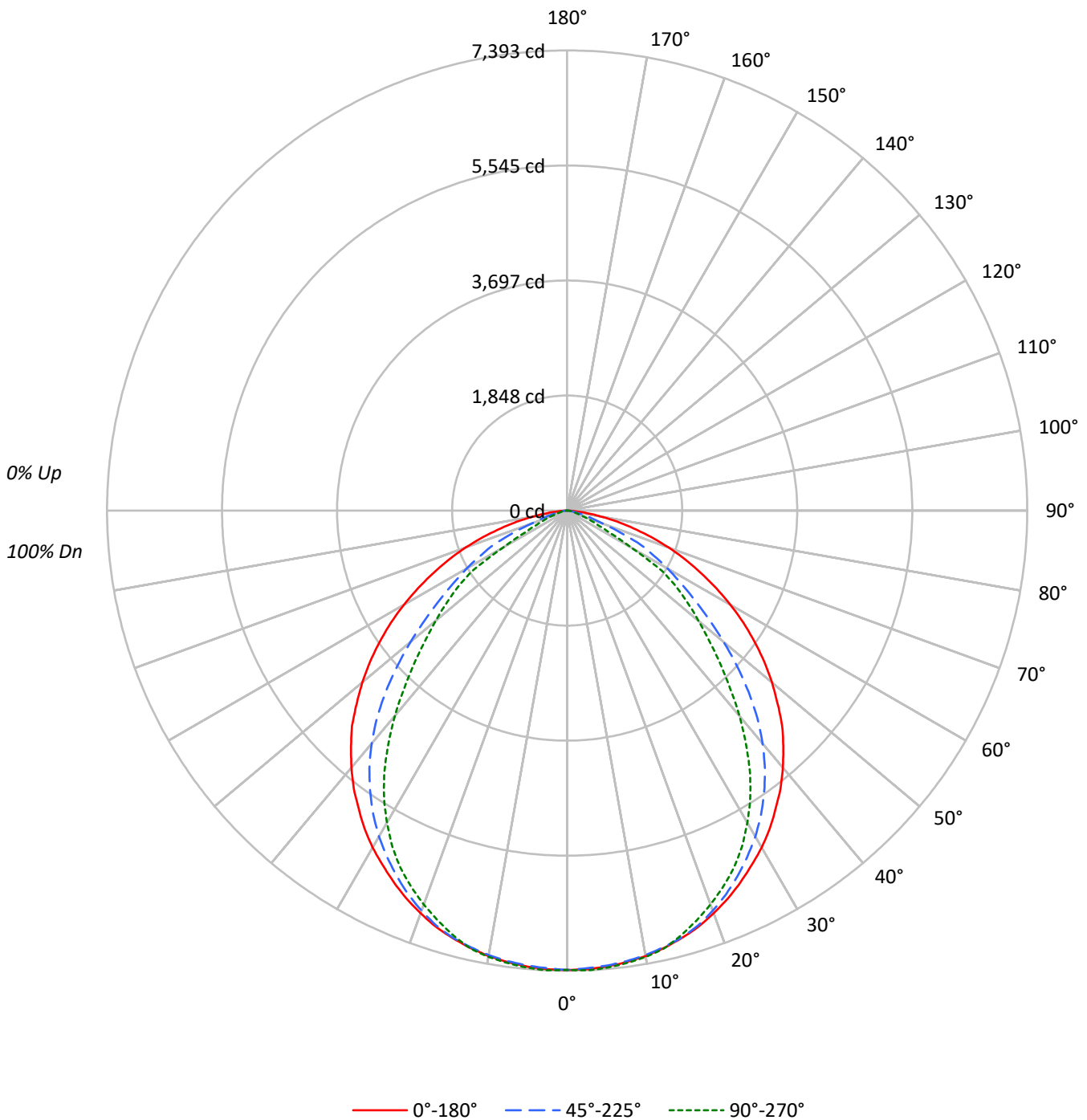
Lumens per Lamp: N/A  
Luminaire Lumens: 16599.0 lumens  
Efficiency: N/A  
Efficacy: 159.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct

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	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	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°	43004	43004	43004
5°	43010	42923	43120
10°	42995	42902	43079
15°	42893	42848	42627
20°	42686	42422	41759
25°	42370	41649	40735
30°	42062	40689	38949
35°	41560	39263	36418
40°	41013	37153	32768
45°	40267	33978	28631
50°	38936	29748	25011
55°	37347	25342	21833
60°	35281	21735	13939
65°	32692	18129	7389
70°	29507	10303	4788
75°	24788	6311	2979
80°	18839	3188	2607
85°	11446	2895	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	698.7	4.2
10°-20°	1998.9	12.0
20°-30°	2979.8	18.0
30°-40°	3431.7	20.7
40°-50°	3193.7	19.2
50°-60°	2430.2	14.6
60°-70°	1304.5	7.9
70°-80°	479.9	2.9
80°-90°	81.6	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°	5677.4	34.2
0°-40°	9109.1	54.9
0°-60°	14733.0	88.8
0°-90°	16599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7380	7380	7380	7380	7380	
5°	7353	7332	7338	7363	7372	699
15°	7110	7099	7103	7089	7066	2007
25°	6590	6584	6478	6386	6336	3038
35°	5842	5771	5519	5242	5119	3657
45°	4886	4651	4123	3634	3474	3755
55°	3676	3260	2494	2221	2149	3284
65°	2371	1742	1315	651	536	2351
75°	1101	721	280	145	132	1180
85°	171	55	43	37	35	228
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7379.9	7379.9	7379.9	7379.9	7379.9
2.5°	7374.6	7352.2	7359.7	7383.6	7393.3
5°	7352.9	7332.0	7337.9	7363.4	7371.6
7.5°	7317.1	7296.9	7301.4	7325.3	7333.5
10°	7266.2	7245.3	7250.5	7273.7	7280.4
12.5°	7197.4	7178.0	7182.5	7199.0	7206.4
15°	7110.0	7098.8	7102.6	7089.1	7065.9
17.5°	7012.1	6995.7	6991.2	6931.4	6906.7
20°	6883.6	6877.6	6840.9	6766.9	6734.0
22.5°	6748.2	6737.0	6673.5	6584.5	6544.9
25°	6589.8	6584.5	6477.7	6385.7	6335.6
27.5°	6419.4	6406.6	6269.1	6154.0	6085.9
30°	6251.1	6219.8	6047.1	5885.6	5788.5
32.5°	6060.5	6001.5	5795.2	5588.9	5476.8
35°	5842.3	5771.3	5519.3	5242.0	5119.4
37.5°	5630.7	5523.8	5220.4	4873.6	4716.6
40°	5391.6	5238.3	4884.1	4481.1	4307.7
42.5°	5139.6	4952.8	4526.0	4057.3	3879.4
45°	4886.2	4650.8	4123.1	3633.5	3474.3
47.5°	4585.0	4335.4	3704.5	3229.1	3092.3
50°	4295.0	4003.5	3281.4	2852.4	2758.9
52.5°	3991.6	3638.0	2870.3	2533.9	2443.5
55°	3676.1	3260.5	2494.4	2220.8	2149.0
57.5°	3359.1	2872.6	2161.0	1936.0	1807.4
60°	3027.3	2487.6	1865.0	1573.4	1196.0
62.5°	2700.6	2086.9	1569.7	986.7	760.9
65°	2371.0	1741.6	1314.8	651.1	535.9
67.5°	2056.3	1407.5	938.1	471.6	401.4
70°	1731.9	1151.1	604.7	337.9	281.0
72.5°	1406.8	926.1	414.9	222.0	180.1
75°	1101.0	721.3	280.3	145.0	132.3
77.5°	825.2	497.8	156.2	107.6	100.9
80°	561.4	298.3	95.0	82.2	77.7
82.5°	336.4	142.8	68.8	60.6	58.3
85°	171.2	55.3	43.3	37.3	35.2
87.5°	50.9	27.6	19.4	15.0	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)