

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: P563322

Luminaire Tested: **VHB-12-W-UNV-L735-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563322
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-L735-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

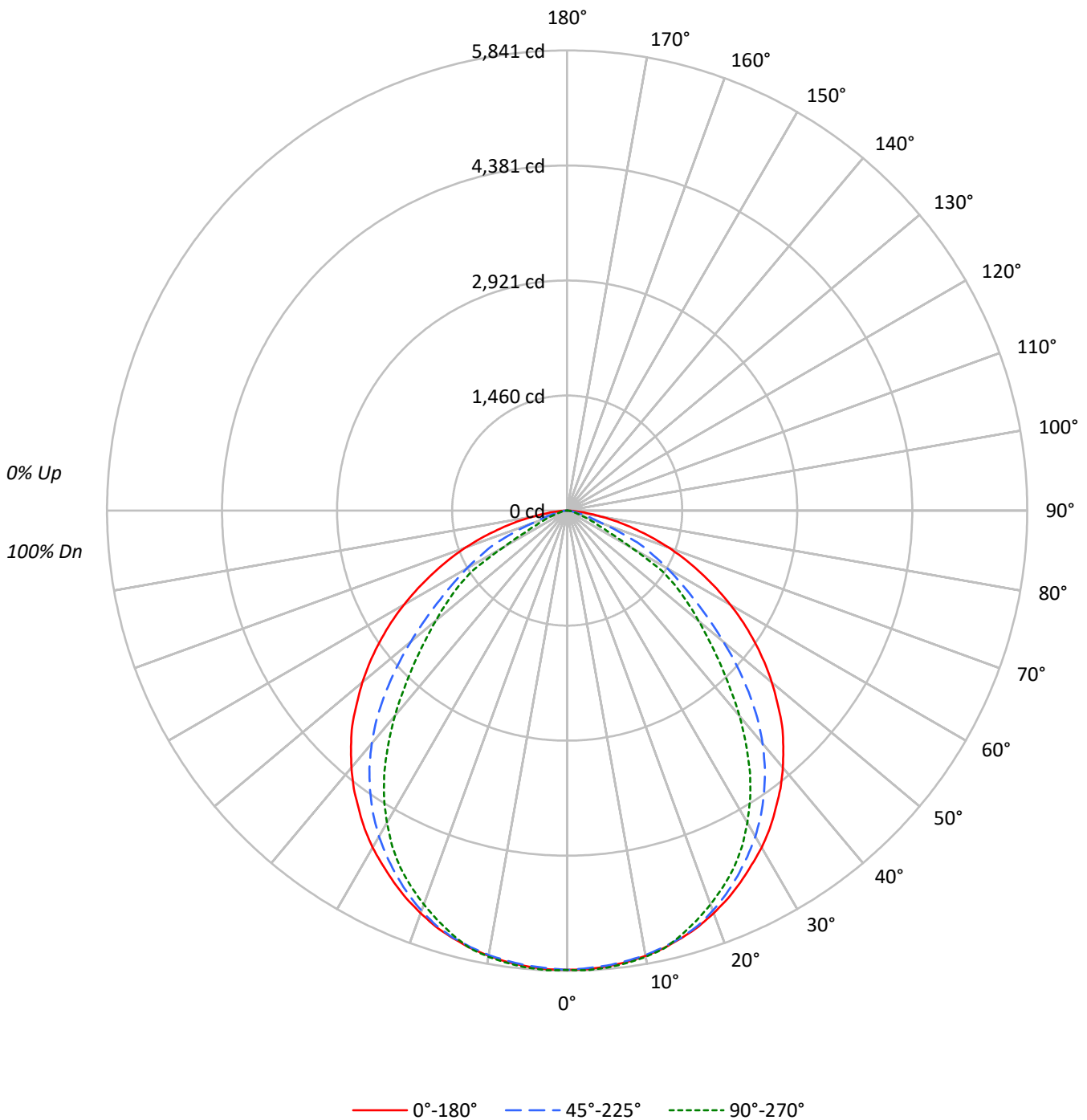
Lumens per Lamp: N/A
Luminaire Lumens: 13113.0 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	33973	33973	33973
5°	33978	33909	34064
10°	33965	33892	34032
15°	33885	33849	33675
20°	33721	33513	32989
25°	33471	32902	32180
30°	33228	32143	30769
35°	32832	31017	28770
40°	32400	29350	25886
45°	31811	26842	22618
50°	30759	23500	19758
55°	29504	20019	17248
60°	27871	17170	11011
65°	25825	14322	5838
70°	23311	8139	3782
75°	19583	4987	2353
80°	14883	2517	2060
85°	9039	2287	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.0	4.2
10°-20°	1579.1	12.0
20°-30°	2354.0	18.0
30°-40°	2711.0	20.7
40°-50°	2523.0	19.2
50°-60°	1919.8	14.6
60°-70°	1030.5	7.9
70°-80°	379.1	2.9
80°-90°	64.5	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°	4485.1	34.2
0°-40°	7196.1	54.9
0°-60°	11638.9	88.8
0°-90°	13113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5830	5830	5830	5830	5830	
5°	5809	5792	5797	5817	5824	552
15°	5617	5608	5611	5600	5582	1585
25°	5206	5202	5117	5045	5005	2400
35°	4615	4559	4360	4141	4044	2889
45°	3860	3674	3257	2870	2745	2966
55°	2904	2576	1970	1754	1698	2594
65°	1873	1376	1039	514	423	1857
75°	870	570	222	115	104	932
85°	135	44	34	30	28	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5830.0	5830.0	5830.0	5830.0	5830.0
2.5°	5825.8	5808.1	5814.1	5833.0	5840.6
5°	5808.7	5792.2	5796.9	5817.0	5823.5
7.5°	5780.4	5764.4	5768.0	5786.9	5793.4
10°	5740.2	5723.7	5727.8	5746.1	5751.4
12.5°	5685.9	5670.5	5674.1	5687.1	5693.0
15°	5616.8	5607.9	5610.9	5600.3	5582.0
17.5°	5539.5	5526.5	5522.9	5475.7	5456.2
20°	5437.9	5433.2	5404.3	5345.8	5319.8
22.5°	5331.0	5322.1	5272.0	5201.7	5170.4
25°	5205.8	5201.7	5117.3	5044.6	5005.0
27.5°	5071.2	5061.2	4952.5	4861.6	4807.8
30°	4938.3	4913.5	4777.1	4649.6	4572.8
32.5°	4787.7	4741.1	4578.1	4415.2	4326.6
35°	4615.3	4559.2	4360.2	4141.1	4044.3
37.5°	4448.2	4363.8	4124.0	3850.1	3726.0
40°	4259.3	4138.2	3858.3	3540.0	3403.0
42.5°	4060.2	3912.6	3575.5	3205.2	3064.6
45°	3860.1	3674.1	3257.2	2870.4	2744.6
47.5°	3622.1	3424.9	2926.5	2550.9	2442.9
50°	3393.0	3162.7	2592.3	2253.4	2179.5
52.5°	3153.3	2874.0	2267.5	2001.8	1930.3
55°	2904.1	2575.7	1970.5	1754.4	1697.7
57.5°	2653.7	2269.3	1707.2	1529.4	1427.9
60°	2391.5	1965.2	1473.3	1243.0	944.8
62.5°	2133.5	1648.6	1240.1	779.5	601.1
65°	1873.0	1375.8	1038.7	514.3	423.4
67.5°	1624.5	1111.9	741.1	372.6	317.1
70°	1368.2	909.4	477.7	266.9	222.0
72.5°	1111.3	731.6	327.8	175.4	142.3
75°	869.8	569.8	221.5	114.6	104.5
77.5°	651.9	393.3	123.4	85.0	79.7
80°	443.5	235.6	75.0	64.9	61.4
82.5°	265.8	112.8	54.3	47.8	46.1
85°	135.2	43.7	34.2	29.5	27.8
87.5°	40.2	21.8	15.3	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)