

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: P563326

Luminaire Tested: **VHB-12-W-UNV-L840-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563326
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-L840-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

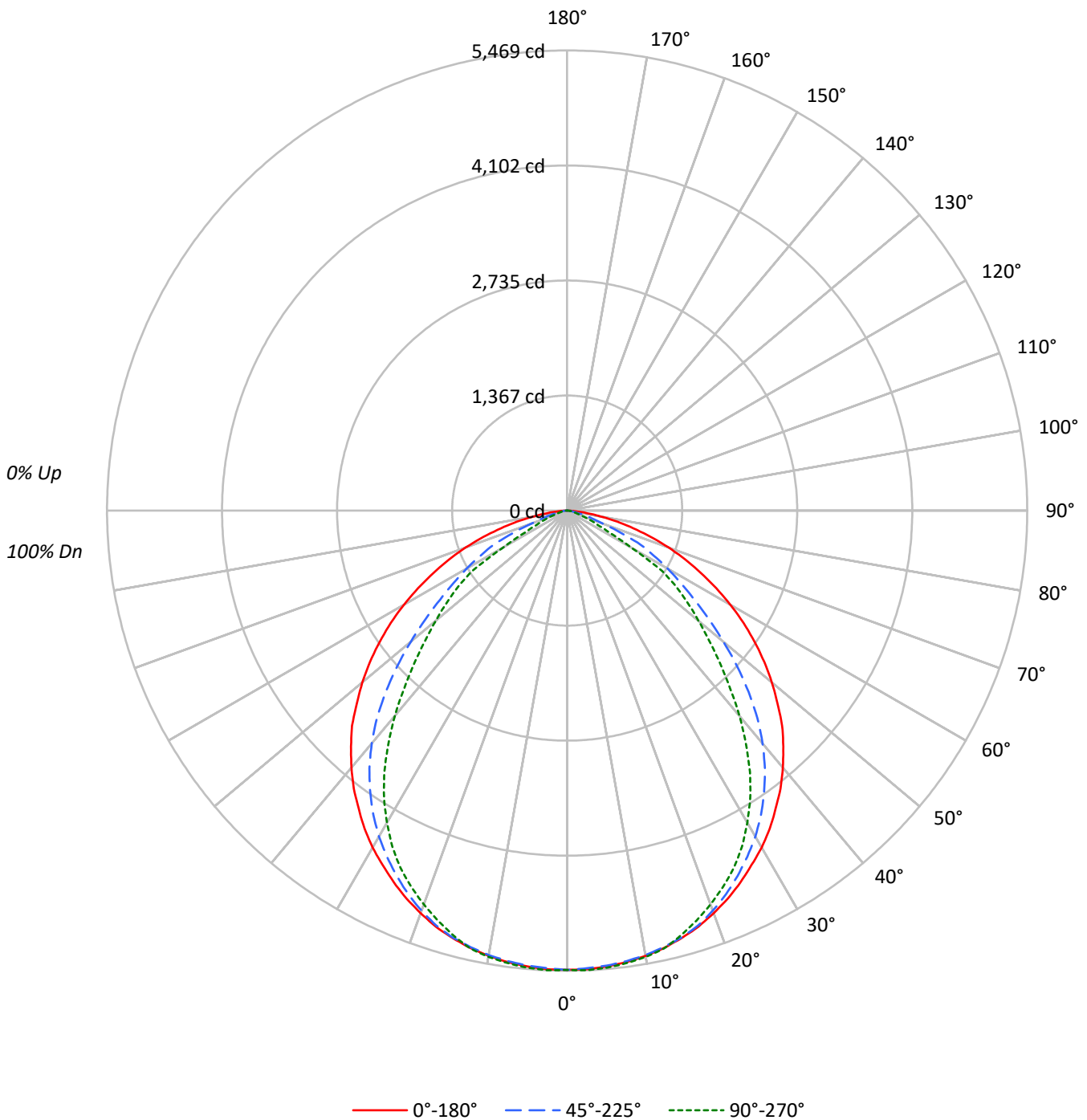
Lumens per Lamp: N/A
Luminaire Lumens: 12278.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	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°	31809	31809	31809
5°	31814	31750	31895
10°	31803	31734	31865
15°	31727	31694	31530
20°	31574	31379	30888
25°	31340	30807	30131
30°	31113	30097	28810
35°	30742	29042	26938
40°	30336	27481	24238
45°	29785	25133	21178
50°	28801	22004	18500
55°	27625	18744	16149
60°	26098	16077	10309
65°	24182	13411	5466
70°	21827	7621	3542
75°	18336	4670	2204
80°	13933	2356	1930
85°	8464	2140	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	4.2
10°-20°	1478.6	12.0
20°-30°	2204.1	18.0
30°-40°	2538.4	20.7
40°-50°	2362.3	19.2
50°-60°	1797.6	14.6
60°-70°	964.9	7.9
70°-80°	355.0	2.9
80°-90°	60.4	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°	4199.5	34.2
0°-40°	6737.8	54.9
0°-60°	10897.7	88.8
0°-90°	12278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5459	5459	5459	5459	5459	
5°	5439	5423	5428	5447	5453	517
15°	5259	5251	5254	5244	5226	1484
25°	4874	4870	4791	4723	4686	2247
35°	4322	4269	4083	3877	3787	2705
45°	3614	3440	3050	2688	2570	2777
55°	2719	2412	1845	1643	1590	2429
65°	1754	1288	973	482	396	1739
75°	814	534	207	107	98	873
85°	127	41	32	28	26	169
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5458.8	5458.8	5458.8	5458.8	5458.8
2.5°	5454.9	5438.3	5443.8	5461.5	5468.7
5°	5438.8	5423.3	5427.8	5446.6	5452.7
7.5°	5412.3	5397.4	5400.7	5418.4	5424.5
10°	5374.7	5359.3	5363.1	5380.2	5385.2
12.5°	5323.8	5309.5	5312.8	5325.0	5330.5
15°	5259.2	5250.8	5253.6	5243.7	5226.5
17.5°	5186.7	5174.6	5171.2	5127.0	5108.8
20°	5091.7	5087.2	5060.1	5005.4	4981.0
22.5°	4991.6	4983.2	4936.3	4870.4	4841.2
25°	4874.4	4870.4	4791.4	4723.4	4686.3
27.5°	4748.3	4738.9	4637.1	4552.0	4501.7
30°	4623.9	4600.7	4472.9	4353.5	4281.7
32.5°	4482.9	4439.2	4286.6	4134.0	4051.1
35°	4321.5	4268.9	4082.6	3877.4	3786.8
37.5°	4165.0	4085.9	3861.4	3604.9	3488.8
40°	3988.0	3874.7	3612.7	3314.6	3186.3
42.5°	3801.7	3663.5	3347.8	3001.1	2869.5
45°	3614.3	3440.1	3049.8	2687.6	2569.9
47.5°	3391.4	3206.8	2740.2	2388.5	2287.3
50°	3177.0	2961.3	2427.2	2109.9	2040.7
52.5°	2952.5	2691.0	2123.1	1874.3	1807.4
55°	2719.2	2411.7	1845.0	1642.7	1589.6
57.5°	2484.7	2124.8	1598.4	1432.0	1336.9
60°	2239.3	1840.0	1379.5	1163.8	884.6
62.5°	1997.6	1543.7	1161.1	729.8	562.8
65°	1753.8	1288.2	972.6	481.6	396.4
67.5°	1521.0	1041.1	693.9	348.9	296.9
70°	1281.1	851.4	447.3	249.9	207.9
72.5°	1040.6	685.0	306.9	164.2	133.2
75°	814.4	533.5	207.4	107.3	97.9
77.5°	610.4	368.2	115.5	79.6	74.7
80°	415.2	220.6	70.2	60.8	57.5
82.5°	248.8	105.6	50.9	44.8	43.1
85°	126.6	40.9	32.0	27.6	26.0
87.5°	37.6	20.4	14.4	11.1	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)