

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: P364410

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-12-W-UNV-L840-CD-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 80CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

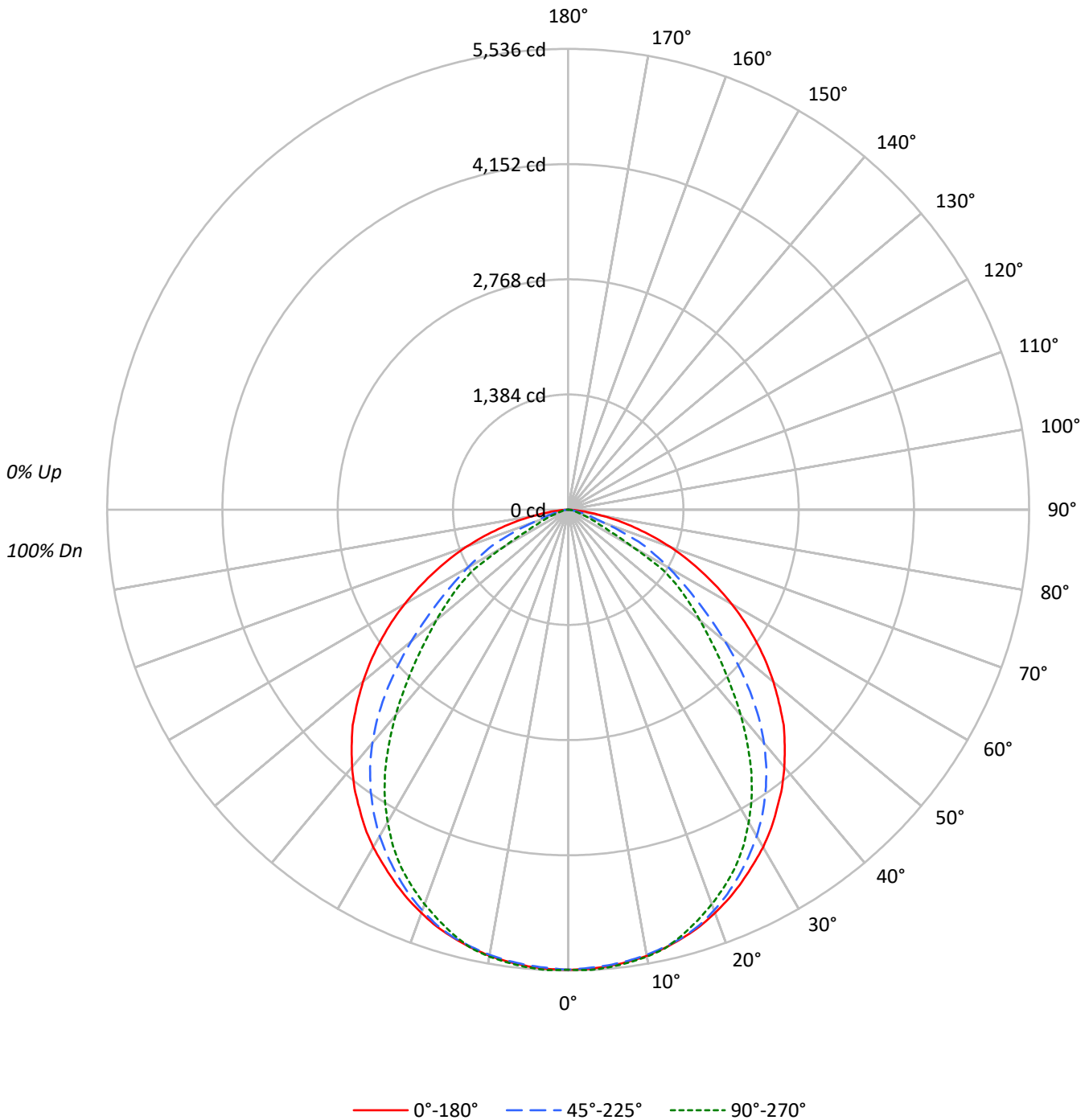
Lumens per Lamp: N/A
Luminaire Lumens: 12430.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 87
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°	33991	33991	33991
5°	33997	33928	34083
10°	33984	33911	34051
15°	33904	33868	33693
20°	33740	33531	33007
25°	33490	32920	32199
30°	33247	32161	30786
35°	32850	31034	28786
40°	32417	29366	25901
45°	31828	26857	22631
50°	30777	23514	19769
55°	29520	20031	17257
60°	27888	17180	11017
65°	25841	14330	5841
70°	23323	8143	3786
75°	19594	4988	2355
80°	14891	2518	2062
85°	9047	2294	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.2	4.2
10°-20°	1496.9	12.0
20°-30°	2231.4	18.0
30°-40°	2569.8	20.7
40°-50°	2391.6	19.2
50°-60°	1819.8	14.6
60°-70°	976.9	7.9
70°-80°	359.4	2.9
80°-90°	61.1	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°	4251.5	34.2
0°-40°	6821.3	54.9
0°-60°	11032.7	88.8
0°-90°	12430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5526	5526	5526	5526	5526	
5°	5506	5490	5495	5514	5520	524
15°	5324	5316	5319	5309	5291	1503
25°	4935	4931	4851	4782	4744	2275
35°	4375	4322	4133	3926	3834	2739
45°	3659	3483	3088	2721	2602	2812
55°	2753	2442	1868	1663	1609	2459
65°	1776	1304	985	488	401	1761
75°	824	540	210	109	99	884
85°	128	41	32	28	26	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5526.3	5526.3	5526.3	5526.3	5526.3
2.5°	5522.4	5505.6	5511.2	5529.1	5536.4
5°	5506.2	5490.5	5495.0	5514.0	5520.2
7.5°	5479.3	5464.2	5467.6	5485.5	5491.6
10°	5441.2	5425.6	5429.5	5446.8	5451.9
12.5°	5389.8	5375.2	5378.6	5390.9	5396.5
15°	5324.3	5315.9	5318.7	5308.6	5291.2
17.5°	5250.9	5238.6	5235.3	5190.5	5172.0
20°	5154.7	5150.2	5122.8	5067.3	5042.7
22.5°	5053.3	5045.0	4997.4	4930.8	4901.1
25°	4934.7	4930.8	4850.7	4781.9	4744.4
27.5°	4807.1	4797.5	4694.6	4608.4	4557.4
30°	4681.1	4657.6	4528.3	4407.4	4334.6
32.5°	4538.4	4494.2	4339.7	4185.2	4101.2
35°	4374.9	4321.8	4133.1	3925.5	3833.7
37.5°	4216.5	4136.5	3909.2	3649.5	3532.0
40°	4037.4	3922.7	3657.4	3355.7	3225.8
42.5°	3848.8	3708.8	3389.2	3038.3	2905.1
45°	3659.0	3482.7	3087.5	2720.9	2601.7
47.5°	3433.5	3246.5	2774.1	2418.1	2315.7
50°	3216.3	2998.0	2457.3	2136.0	2066.0
52.5°	2989.0	2724.3	2149.4	1897.5	1829.8
55°	2752.8	2441.6	1867.9	1663.0	1609.3
57.5°	2515.5	2151.1	1618.2	1449.7	1353.5
60°	2267.0	1862.8	1396.6	1178.3	895.6
62.5°	2022.3	1562.8	1175.5	738.9	569.8
65°	1775.5	1304.2	984.6	487.5	401.3
67.5°	1539.8	1054.0	702.5	353.2	300.6
70°	1296.9	862.0	452.8	253.0	210.5
72.5°	1053.4	693.5	310.7	166.2	134.9
75°	824.5	540.2	209.9	108.6	99.1
77.5°	618.0	372.8	117.0	80.6	75.6
80°	420.4	223.3	71.1	61.6	58.2
82.5°	251.9	106.9	51.5	45.3	43.7
85°	128.2	41.4	32.5	28.0	26.3
87.5°	38.1	20.7	14.6	11.2	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)