

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: P364409

Luminaire Tested: **VHB-12-W-UNV-L835-CD-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364409
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-L835-CD-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 80CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12191.0 lumens
Efficiency: N/A
Efficacy: 140.1 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

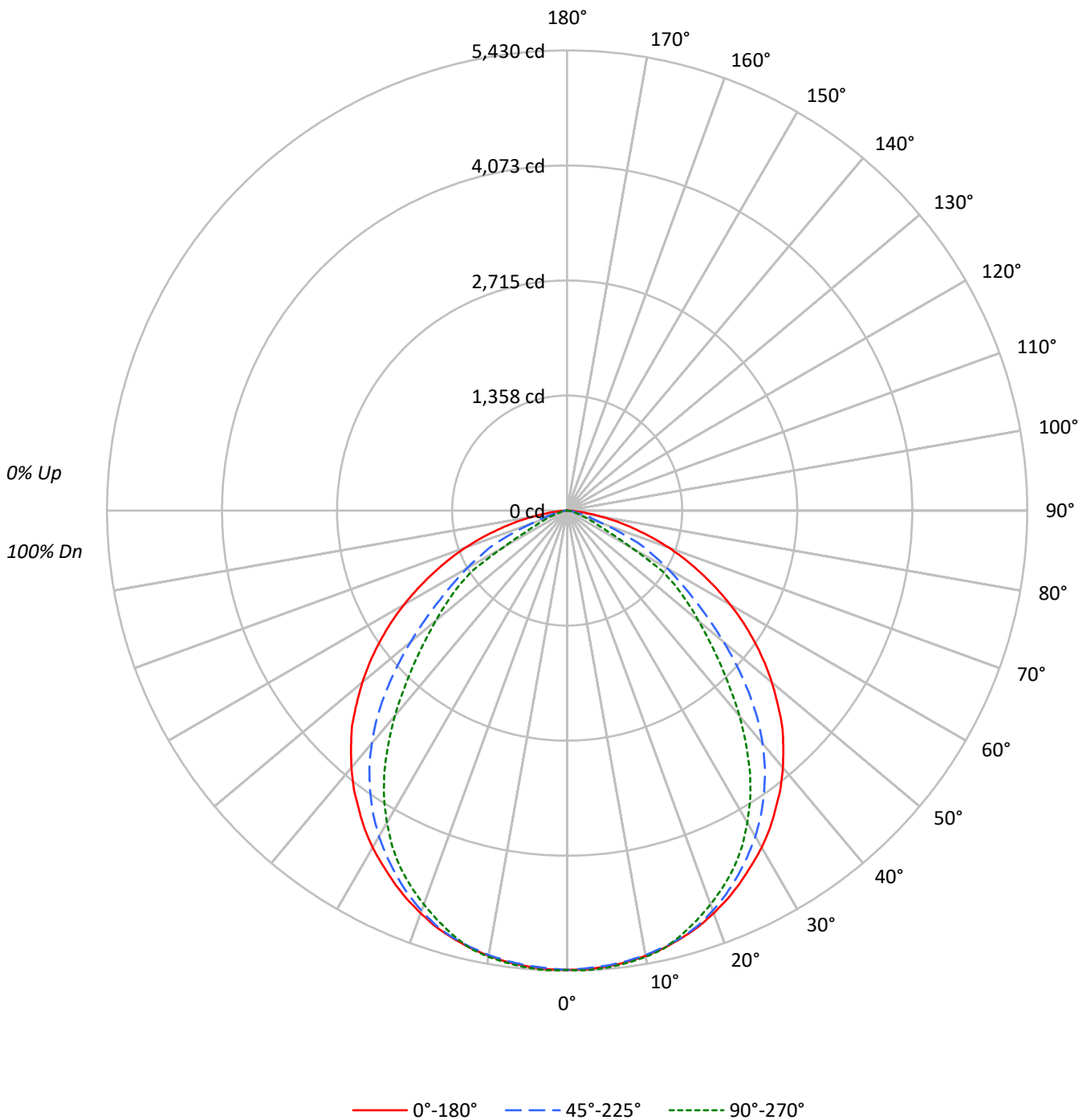
Input Watts (W): 87
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33338	33338	33338
5°	33343	33275	33428
10°	33331	33259	33396
15°	33252	33217	33046
20°	33091	32887	32373
25°	32846	32287	31579
30°	32607	31543	30194
35°	32218	30438	28233
40°	31794	28801	25403
45°	31216	26341	22196
50°	30184	23061	19390
55°	28953	19645	16925
60°	27351	16849	10806
65°	25344	14055	5728
70°	22875	7987	3712
75°	19216	4893	2310
80°	14604	2469	2023
85°	8871	2244	1821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	4.2
10°-20°	1468.1	12.0
20°-30°	2188.5	18.0
30°-40°	2520.4	20.7
40°-50°	2345.6	19.2
50°-60°	1784.8	14.6
60°-70°	958.1	7.9
70°-80°	352.5	2.9
80°-90°	59.9	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°	4169.7	34.2
0°-40°	6690.1	54.9
0°-60°	10820.5	88.8
0°-90°	12191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5420	5420	5420	5420	5420	
5°	5400	5385	5389	5408	5414	513
15°	5222	5214	5216	5206	5190	1474
25°	4840	4836	4758	4690	4653	2231
35°	4291	4239	4054	3850	3760	2686
45°	3589	3416	3028	2669	2552	2758
55°	2700	2395	1832	1631	1578	2412
65°	1741	1279	966	478	394	1727
75°	809	530	206	106	97	867
85°	126	41	32	27	26	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5420.1	5420.1	5420.1	5420.1	5420.1
2.5°	5416.2	5399.8	5405.2	5422.8	5430.0
5°	5400.3	5384.9	5389.3	5408.0	5414.0
7.5°	5374.0	5359.1	5362.4	5380.0	5386.0
10°	5336.6	5321.3	5325.1	5342.1	5347.1
12.5°	5286.1	5271.8	5275.1	5287.2	5292.7
15°	5221.9	5213.7	5216.4	5206.5	5189.5
17.5°	5150.0	5137.9	5134.6	5090.7	5072.6
20°	5055.5	5051.2	5024.3	4969.9	4945.8
22.5°	4956.2	4947.9	4901.3	4836.0	4806.9
25°	4839.8	4836.0	4757.5	4689.9	4653.1
27.5°	4714.6	4705.3	4604.3	4519.7	4469.8
30°	4591.1	4568.1	4441.2	4322.7	4251.3
32.5°	4451.1	4407.8	4256.2	4104.7	4022.4
35°	4290.8	4238.7	4053.7	3850.0	3760.0
37.5°	4135.5	4057.0	3834.1	3579.3	3464.1
40°	3959.8	3847.2	3587.0	3291.1	3163.8
42.5°	3774.8	3637.5	3324.1	2979.9	2849.2
45°	3588.7	3415.7	3028.2	2668.6	2551.7
47.5°	3367.4	3184.1	2720.7	2371.6	2271.1
50°	3154.4	2940.3	2410.0	2094.9	2026.3
52.5°	2931.5	2671.9	2108.1	1861.0	1794.6
55°	2699.9	2394.6	1831.9	1631.0	1578.3
57.5°	2467.1	2109.7	1587.1	1421.9	1327.4
60°	2223.4	1827.0	1369.7	1155.6	878.4
62.5°	1983.5	1532.7	1152.9	724.7	558.9
65°	1741.4	1279.1	965.7	478.2	393.6
67.5°	1510.2	1033.7	689.0	346.4	294.8
70°	1272.0	845.4	444.1	248.1	206.4
72.5°	1033.2	680.2	304.7	163.0	132.3
75°	808.6	529.8	205.9	106.5	97.2
77.5°	606.1	365.6	114.7	79.1	74.1
80°	412.3	219.0	69.7	60.4	57.1
82.5°	247.0	104.9	50.5	44.5	42.8
85°	125.7	40.6	31.8	27.4	25.8
87.5°	37.3	20.3	14.3	11.0	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)