

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: P364427

Luminaire Tested: **VHB-15-N-UNV-L835-CD-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-15-N-UNV-L835-CD-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 3500K, 80CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14825.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

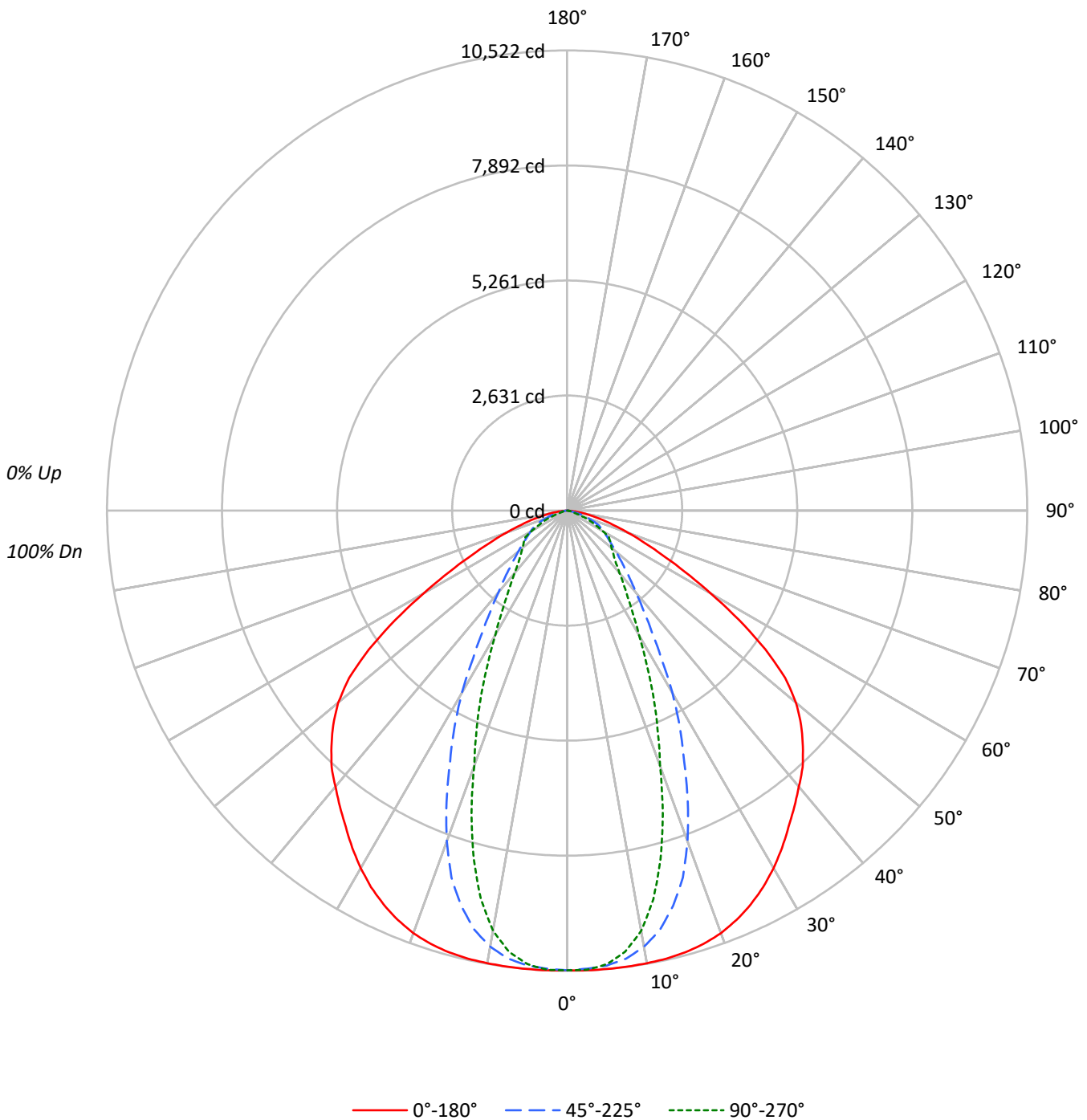
Input Watts (W): 111.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	64658	64658	64658
5°	64962	64468	64282
10°	65643	63232	60923
15°	66579	59576	52530
20°	67297	52632	40670
25°	67431	42978	31514
30°	67053	34134	23324
35°	66289	25294	18137
40°	66184	19642	14968
45°	66324	16164	13297
50°	65383	13981	12683
55°	59355	12463	12815
60°	46664	11910	11677
65°	34659	11543	8786
70°	26582	9242	5363
75°	20236	6590	2959
80°	14859	3064	2391
85°	9301	2639	2131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.6	6.7
10°-20°	2599.9	17.5
20°-30°	3139.6	21.2
30°-40°	2807.2	18.9
40°-50°	2198.2	14.8
50°-60°	1660.9	11.2
60°-70°	986.5	6.7
70°-80°	379.1	2.6
80°-90°	65.9	0.4
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°	6727.1	45.4
0°-40°	9534.4	64.3
0°-60°	13393.6	90.3
0°-90°	14825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10512	10512	10512	10512	10512	
5°	10521	10475	10441	10428	10411	###
15°	10456	10111	9356	8574	8249	2954
25°	9936	8767	6333	4993	4644	4575
35°	8828	6282	3369	2627	2416	5536
45°	7625	3249	1858	1570	1529	5869
55°	5535	1763	1162	1158	1195	4861
65°	2381	990	793	661	604	2454
75°	852	476	277	137	124	932
85°	132	46	37	33	30	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10512.1	10512.1	10512.1	10512.1	10512.1
2.5°	10521.9	10487.2	10484.6	10506.9	10510.1
5°	10521.3	10475.4	10441.3	10427.6	10411.2
7.5°	10518.0	10448.5	10333.8	10223.7	10172.6
10°	10510.1	10386.9	10124.1	9873.7	9754.4
12.5°	10493.1	10276.8	9812.7	9352.6	9102.2
15°	10455.7	10111.0	9355.8	8573.8	8249.4
17.5°	10388.2	9882.2	8796.0	7692.2	7274.6
20°	10281.4	9591.1	8040.9	6686.7	6213.4
22.5°	10128.0	9211.0	7209.1	5781.4	5403.2
25°	9935.9	8767.2	6332.7	4992.9	4643.5
27.5°	9707.8	8249.4	5577.6	4258.7	3914.6
30°	9441.0	7644.3	4806.1	3565.2	3284.0
32.5°	9142.8	7007.2	4000.5	3036.2	2804.8
35°	8828.2	6282.2	3368.6	2626.6	2415.5
37.5°	8531.9	5506.1	2852.7	2264.1	2115.9
40°	8242.8	4690.7	2446.3	1977.6	1864.2
42.5°	7970.1	3910.7	2135.6	1737.7	1663.6
45°	7624.7	3248.6	1858.3	1569.9	1528.6
47.5°	7258.3	2741.9	1638.1	1433.6	1419.1
50°	6832.8	2335.5	1461.1	1314.9	1325.4
52.5°	6280.9	2014.3	1293.3	1231.0	1261.8
55°	5535.0	1762.6	1162.2	1157.6	1195.0
57.5°	4661.2	1522.1	1058.6	1087.5	1129.4
60°	3793.3	1328.7	968.2	1010.1	949.2
62.5°	3030.3	1151.0	882.3	805.6	753.2
65°	2381.4	989.8	793.1	661.4	603.7
67.5°	1899.0	839.7	667.3	526.4	478.5
70°	1478.1	706.0	513.9	395.3	298.2
72.5°	1132.7	589.9	401.2	224.8	169.8
75°	851.5	475.9	277.3	137.0	124.5
77.5°	607.0	353.3	148.1	99.0	91.8
80°	419.5	226.8	86.5	71.4	67.5
82.5°	260.2	109.5	59.0	51.1	47.9
85°	131.8	45.9	37.4	32.8	30.2
87.5°	43.9	22.3	17.0	15.7	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)