

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: P364415

Luminaire Tested: **VHB-18-W-UNV-L835-CD-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364415
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-18-W-UNV-L835-CD-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 3500K, 80CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

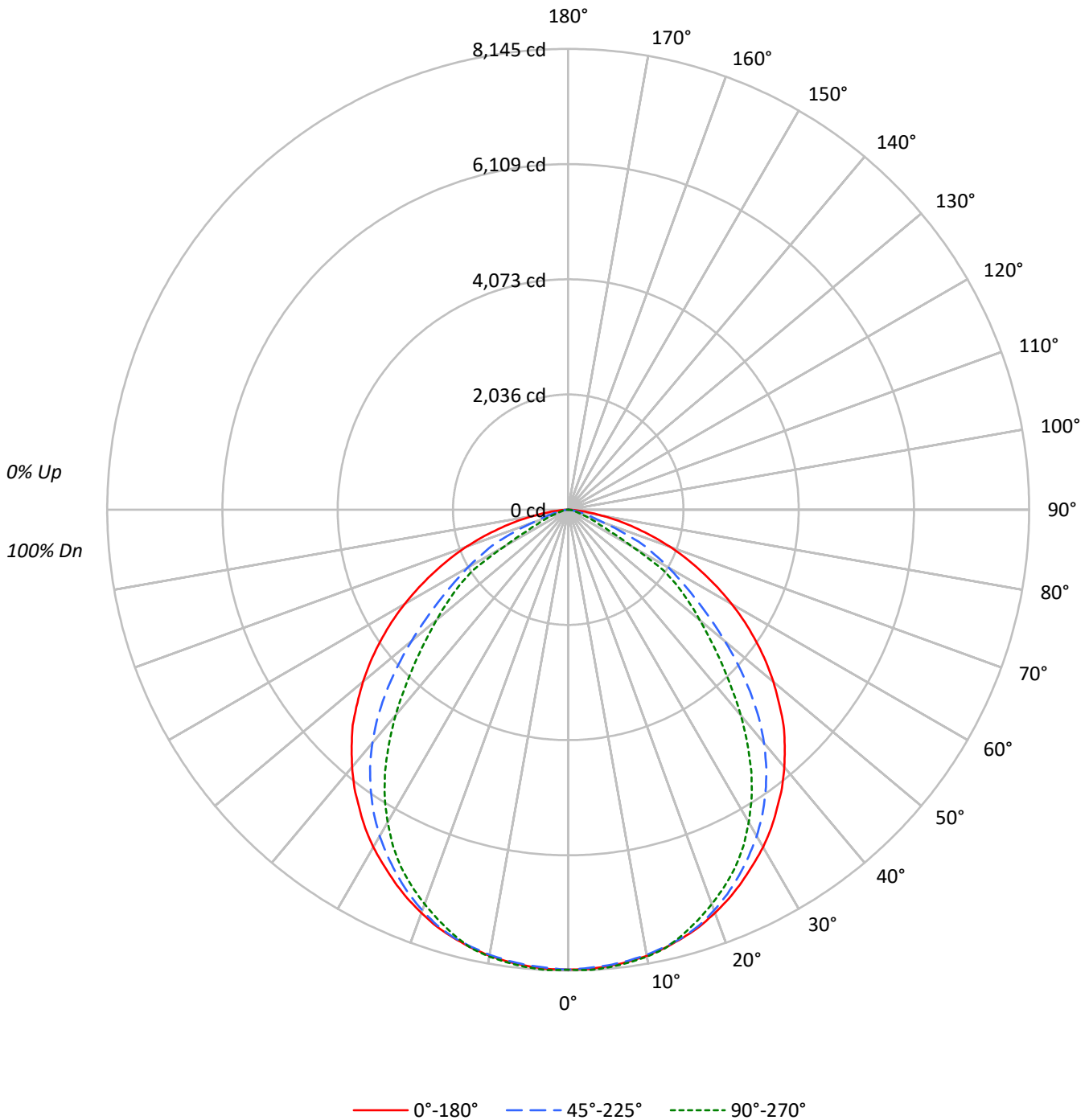
Lumens per Lamp: N/A
Luminaire Lumens: 18287.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 133.8
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°	50008	50008	50008
5°	50016	49914	50143
10°	49998	49890	50095
15°	49879	49827	49570
20°	49638	49331	48560
25°	49270	48432	47370
30°	48913	47316	45292
35°	48329	45658	42350
40°	47692	43203	38105
45°	46826	39512	33295
50°	45278	34593	29085
55°	43429	29468	25388
60°	41027	25275	16209
65°	38017	21081	8593
70°	34313	11981	5568
75°	28827	7339	3465
80°	21904	3705	3032
85°	13310	3373	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.7	4.2
10°-20°	2202.2	12.0
20°-30°	3282.8	18.0
30°-40°	3780.7	20.7
40°-50°	3518.5	19.2
50°-60°	2677.3	14.6
60°-70°	1437.1	7.9
70°-80°	528.7	2.9
80°-90°	89.9	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°	6254.8	34.2
0°-40°	10035.4	54.9
0°-60°	16231.2	88.8
0°-90°	18287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8130	8130	8130	8130	8130	
5°	8101	8078	8084	8112	8121	770
15°	7833	7821	7825	7810	7784	2211
25°	7260	7254	7136	7035	6980	3346
35°	6436	6358	6081	5775	5640	4029
45°	5383	5124	4542	4003	3828	4137
55°	4050	3592	2748	2447	2368	3617
65°	2612	1919	1448	717	590	2590
75°	1213	795	309	160	146	1300
85°	189	61	48	41	39	251
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8130.3	8130.3	8130.3	8130.3	8130.3
2.5°	8124.6	8099.9	8108.1	8134.4	8145.1
5°	8100.7	8077.6	8084.2	8112.2	8121.3
7.5°	8061.2	8038.9	8043.9	8070.2	8079.3
10°	8005.2	7982.1	7987.9	8013.4	8020.8
12.5°	7929.4	7908.0	7912.9	7931.0	7939.3
15°	7833.0	7820.7	7824.8	7810.0	7784.5
17.5°	7725.2	7707.1	7702.1	7636.2	7609.1
20°	7583.5	7576.9	7536.6	7455.1	7418.8
22.5°	7434.5	7422.1	7352.1	7254.1	7210.5
25°	7259.9	7254.1	7136.4	7035.1	6979.9
27.5°	7072.1	7058.1	6906.6	6779.8	6704.9
30°	6886.9	6852.3	6662.0	6484.2	6377.1
32.5°	6676.9	6611.8	6384.5	6157.2	6033.7
35°	6436.4	6358.2	6080.7	5775.1	5640.1
37.5°	6203.4	6085.6	5751.3	5369.2	5196.2
40°	5939.8	5771.0	5380.7	4936.8	4745.8
42.5°	5662.3	5456.5	4986.2	4469.9	4273.9
45°	5383.2	5123.8	4542.4	4003.0	3827.6
47.5°	5051.3	4776.2	4081.2	3557.5	3406.8
50°	4731.8	4410.6	3615.1	3142.4	3039.5
52.5°	4397.4	4007.9	3162.2	2791.6	2692.0
55°	4049.9	3592.1	2748.0	2446.6	2367.5
57.5°	3700.8	3164.7	2380.7	2132.8	1991.2
60°	3335.1	2740.6	2054.6	1733.4	1317.6
62.5°	2975.3	2299.2	1729.3	1087.0	838.3
65°	2612.1	1918.7	1448.5	717.3	590.4
67.5°	2265.4	1550.6	1033.5	519.6	442.2
70°	1908.0	1268.2	666.2	372.2	309.6
72.5°	1549.8	1020.3	457.0	244.6	198.5
75°	1213.0	794.7	308.8	159.8	145.8
77.5°	909.1	548.4	172.1	118.6	111.2
80°	618.4	328.6	104.6	90.6	85.6
82.5°	370.6	157.3	75.8	66.7	64.2
85°	188.6	60.9	47.8	41.2	38.7
87.5°	56.0	30.5	21.4	16.5	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)