

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: P364413

Luminaire Tested: **VHB-15-W-UNV-L840-CD-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364413
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-15-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: 15417.0 lumens
Efficiency: N/A
Efficacy: 138.1 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

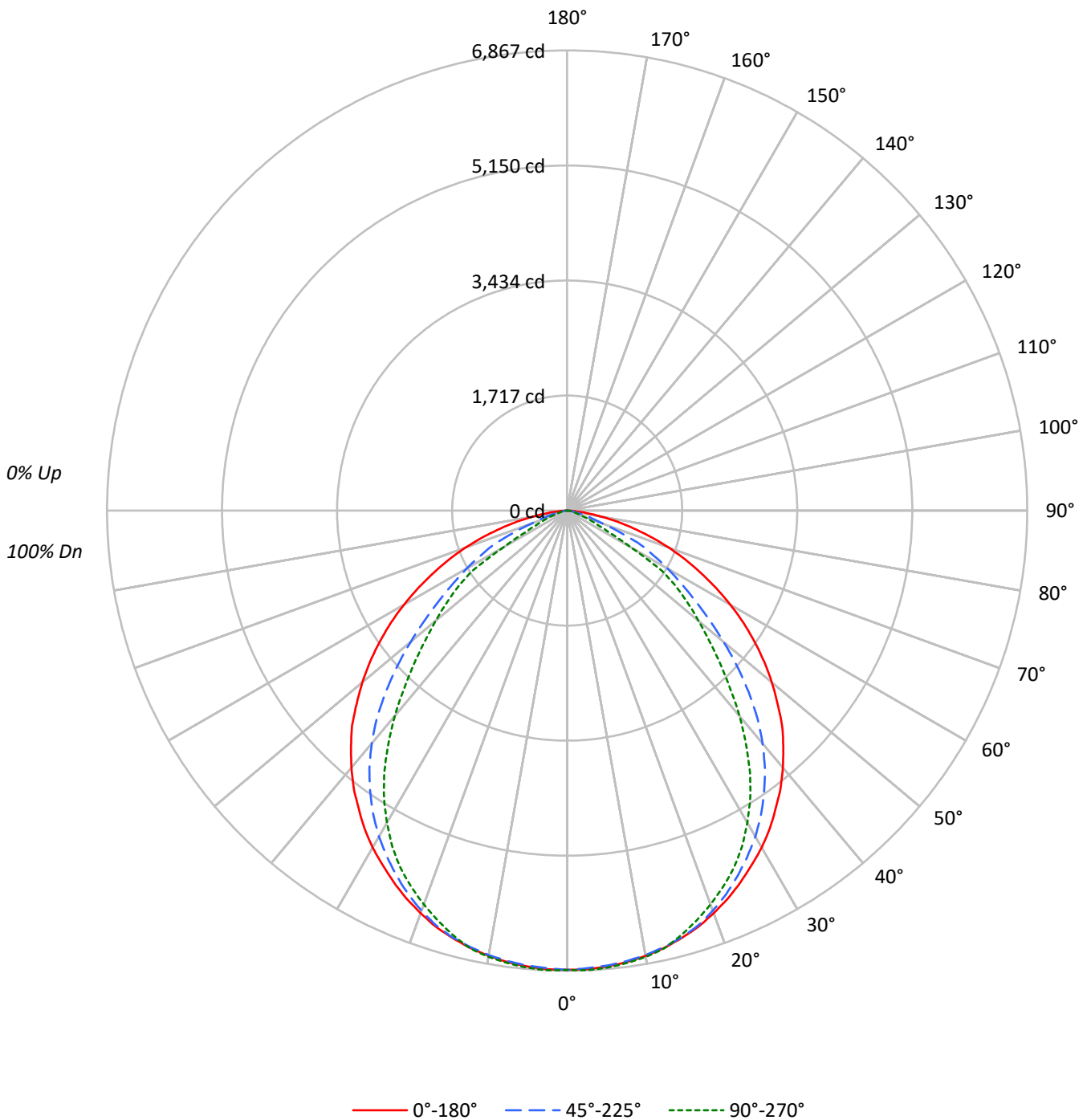
Input Watts (W): 111.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	42159	42159	42159
5°	42166	42081	42273
10°	42151	42060	42233
15°	42051	42007	41790
20°	41848	41589	40939
25°	41538	40831	39936
30°	41236	39890	38184
35°	40745	38492	35703
40°	40207	36422	32125
45°	39477	33311	28069
50°	38172	29164	24520
55°	36614	24843	21404
60°	34588	21309	13665
65°	32051	17773	7245
70°	28929	10100	4694
75°	24302	6186	2921
80°	18469	3124	2557
85°	11221	2844	2301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.9	4.2
10°-20°	1856.6	12.0
20°-30°	2767.6	18.0
30°-40°	3187.3	20.7
40°-50°	2966.3	19.2
50°-60°	2257.1	14.6
60°-70°	1211.6	7.9
70°-80°	445.8	2.9
80°-90°	75.8	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°	5273.1	34.2
0°-40°	8460.5	54.9
0°-60°	13683.9	88.8
0°-90°	15417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6854	6854	6854	6854	6854	
5°	6829	6810	6816	6839	6847	649
15°	6604	6593	6597	6584	6563	1864
25°	6120	6116	6016	5931	5884	2821
35°	5426	5360	5126	4869	4755	3397
45°	4538	4320	3830	3375	3227	3488
55°	3414	3028	2317	2063	1996	3050
65°	2202	1618	1221	605	498	2184
75°	1023	670	260	135	123	1096
85°	159	51	40	35	33	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6854.3	6854.3	6854.3	6854.3	6854.3
2.5°	6849.5	6828.6	6835.6	6857.8	6866.8
5°	6829.3	6809.9	6815.5	6839.1	6846.7
7.5°	6796.0	6777.3	6781.4	6803.7	6811.3
10°	6748.8	6729.4	6734.2	6755.8	6762.0
12.5°	6684.9	6666.9	6671.1	6686.3	6693.3
15°	6603.7	6593.3	6596.8	6584.3	6562.8
17.5°	6512.8	6497.5	6493.3	6437.8	6414.9
20°	6393.4	6387.8	6353.8	6285.1	6254.5
22.5°	6267.7	6257.3	6198.3	6115.7	6078.9
25°	6120.5	6115.7	6016.4	5931.0	5884.5
27.5°	5962.2	5950.4	5822.7	5715.8	5652.6
30°	5806.0	5776.9	5616.5	5466.5	5376.3
32.5°	5629.0	5574.1	5382.5	5190.9	5086.8
35°	5426.3	5360.3	5126.3	4868.8	4754.9
37.5°	5229.8	5130.5	4848.6	4526.5	4380.7
40°	5007.6	4865.3	4536.2	4162.0	4001.0
42.5°	4773.7	4600.1	4203.7	3768.4	3603.2
45°	4538.3	4319.6	3829.5	3374.8	3226.9
47.5°	4258.5	4026.7	3440.7	2999.2	2872.1
50°	3989.2	3718.4	3047.8	2649.3	2562.5
52.5°	3707.3	3378.9	2665.9	2353.5	2269.5
55°	3414.3	3028.3	2316.7	2062.6	1996.0
57.5°	3120.0	2668.0	2007.1	1798.1	1678.7
60°	2811.7	2310.5	1732.2	1461.4	1110.8
62.5°	2508.3	1938.3	1457.9	916.4	706.7
65°	2202.2	1617.6	1221.2	604.7	497.8
67.5°	1909.9	1307.3	871.3	438.1	372.8
70°	1608.6	1069.1	561.6	313.8	261.0
72.5°	1306.6	860.2	385.3	206.2	167.3
75°	1022.6	670.0	260.3	134.7	122.9
77.5°	766.5	462.4	145.1	100.0	93.7
80°	521.4	277.0	88.2	76.4	72.2
82.5°	312.4	132.6	63.9	56.2	54.2
85°	159.0	51.4	40.3	34.7	32.6
87.5°	47.2	25.7	18.1	13.9	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)