

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: P565479

Luminaire Tested: **VHB-9-N-UNV-L750-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-2)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-9-N-UNV-L750-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 5000K,
70 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

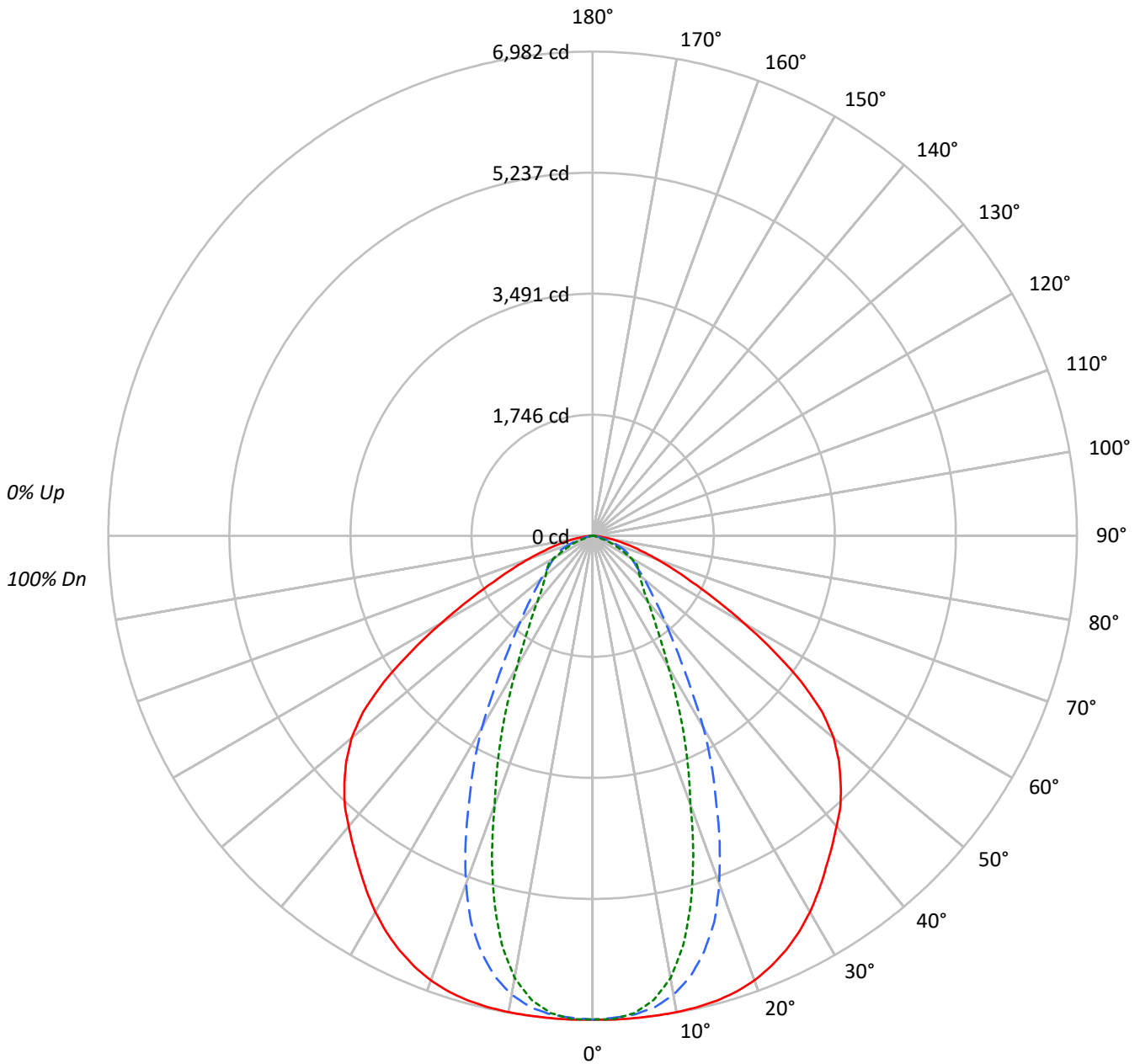
Lumens per Lamp: N/A
Luminaire Lumens: 9838.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

Input Watts (W): 64.6
Input Voltage (V): NR
Input Current (A_{in}): 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	45	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°	42907	42907	42907
5°	43109	42782	42658
10°	43561	41961	40429
15°	44183	39535	34859
20°	44659	34927	26989
25°	44748	28520	20913
30°	44497	22651	15478
35°	43989	16785	12036
40°	43920	13035	9933
45°	44013	10727	8824
50°	43388	9278	8416
55°	39389	8270	8504
60°	30967	7904	7749
65°	23000	7660	5830
70°	17640	6132	3559
75°	13430	4373	1963
80°	9861	2033	1587
85°	6168	1750	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.4	6.7
10°-20°	1725.3	17.5
20°-30°	2083.5	21.2
30°-40°	1862.9	18.9
40°-50°	1458.8	14.8
50°-60°	1102.2	11.2
60°-70°	654.6	6.7
70°-80°	251.6	2.6
80°-90°	43.7	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°	4464.2	45.4
0°-40°	6327.1	64.3
0°-60°	8888.1	90.3
0°-90°	9838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6976	6976	6976	6976	6976	
5°	6982	6952	6929	6920	6909	666
15°	6938	6710	6209	5690	5474	1960
25°	6594	5818	4202	3313	3082	3036
35°	5858	4169	2235	1743	1603	3674
45°	5060	2156	1233	1042	1014	3895
55°	3673	1170	771	768	793	3226
65°	1580	657	526	439	401	1628
75°	565	316	184	91	83	619
85°	87	30	25	22	20	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6975.9	6975.9	6975.9	6975.9	6975.9
2.5°	6982.5	6959.4	6957.7	6972.5	6974.6
5°	6982.0	6951.6	6929.0	6919.8	6908.9
7.5°	6979.8	6933.7	6857.6	6784.5	6750.6
10°	6974.6	6892.8	6718.4	6552.3	6473.1
12.5°	6963.3	6819.8	6511.8	6206.4	6040.3
15°	6938.5	6709.7	6208.6	5689.7	5474.3
17.5°	6893.7	6557.9	5837.1	5104.6	4827.5
20°	6822.8	6364.8	5336.0	4437.3	4123.3
22.5°	6721.0	6112.5	4784.0	3836.6	3585.6
25°	6593.6	5818.0	4202.4	3313.3	3081.5
27.5°	6442.2	5474.3	3701.3	2826.1	2597.8
30°	6265.2	5072.9	3189.3	2365.9	2179.3
32.5°	6067.2	4650.0	2654.7	2014.9	1861.3
35°	5858.4	4168.9	2235.4	1743.0	1602.9
37.5°	5661.8	3653.9	1893.1	1502.5	1404.1
40°	5470.0	3112.8	1623.4	1312.4	1237.1
42.5°	5289.0	2595.1	1417.2	1153.2	1104.0
45°	5059.8	2155.8	1233.2	1041.8	1014.4
47.5°	4816.6	1819.6	1087.0	951.3	941.8
50°	4534.3	1549.9	969.6	872.6	879.5
52.5°	4168.1	1336.7	858.2	816.9	837.4
55°	3673.1	1169.7	771.2	768.2	793.0
57.5°	3093.2	1010.0	702.5	721.6	749.5
60°	2517.3	881.7	642.5	670.3	629.9
62.5°	2011.0	763.8	585.5	534.6	499.8
65°	1580.3	656.8	526.3	438.9	400.6
67.5°	1260.2	557.2	442.8	349.3	317.5
70°	980.9	468.5	341.0	262.3	197.9
72.5°	751.7	391.5	266.2	149.2	112.7
75°	565.1	315.8	184.0	90.9	82.6
77.5°	402.8	234.5	98.3	65.7	60.9
80°	278.4	150.5	57.4	47.4	44.8
82.5°	172.7	72.6	39.1	33.9	31.8
85°	87.4	30.4	24.8	21.7	20.0
87.5°	29.1	14.8	11.3	10.4	9.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)