

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: P565476

Luminaire Tested: **VHB-24-W-UNV-L950-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-491-3)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 9/7/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-24-W-UNV-L950-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 5000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

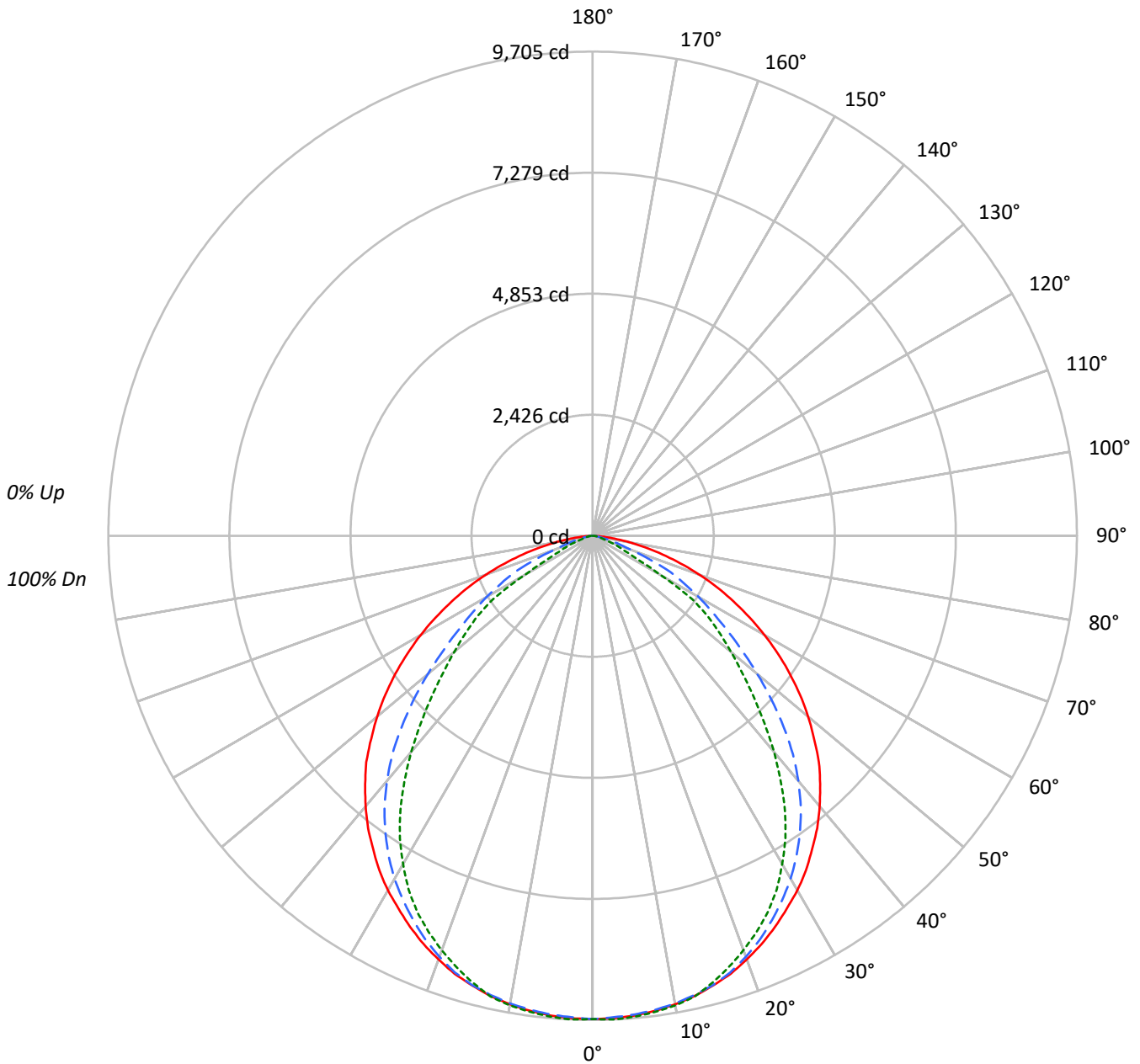
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21789.0 lumens
Efficiency: N/A
Efficacy: 125.2 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): 174.1
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

TEST NUMBER: P565476
CATALOG NUMBER: VHB-24-W-UNV-L950-CD1-U

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	75	75	75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65	65	65	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57	57	57	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50	50	50	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44	44	44	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39	39	39	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36	36	36	36
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32	32	32	32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29	29	29	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	59585	59585	59585
5°	59594	59473	59745
10°	59573	59444	59689
15°	59431	59369	59062
20°	59144	58778	57860
25°	58706	57707	56442
30°	58280	56377	53966
35°	57584	54401	50460
40°	56826	51477	45402
45°	55792	47079	39671
50°	53949	41217	34655
55°	51747	35111	30250
60°	48884	30116	19312
65°	45296	25119	10239
70°	40884	14275	6634
75°	34347	8743	4128
80°	26102	4413	3613
85°	15858	4016	3253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.1	4.2
10°-20°	2624.0	12.0
20°-30°	3911.5	18.0
30°-40°	4504.7	20.7
40°-50°	4192.3	19.2
50°-60°	3190.0	14.6
60°-70°	1712.3	7.9
70°-80°	630.0	2.9
80°-90°	107.1	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°	7452.6	34.2
0°-40°	11957.3	54.9
0°-60°	19339.6	88.8
0°-90°	21789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9687	9687	9687	9687	9687	
5°	9652	9624	9632	9666	9676	918
15°	9333	9318	9323	9306	9275	2634
25°	8650	8643	8503	8382	8317	3987
35°	7669	7576	7245	6881	6720	4801
45°	6414	6105	5412	4770	4561	4929
55°	4826	4280	3274	2915	2821	4310
65°	3112	2286	1726	855	704	3086
75°	1445	947	368	190	174	1549
85°	225	73	57	49	46	299
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9687.3	9687.3	9687.3	9687.3	9687.3
2.5°	9680.4	9651.0	9660.8	9692.2	9705.0
5°	9652.0	9624.5	9632.4	9665.7	9676.5
7.5°	9604.9	9578.4	9584.3	9615.7	9626.5
10°	9538.2	9510.7	9517.6	9548.0	9556.8
12.5°	9447.9	9422.4	9428.3	9449.9	9459.7
15°	9333.1	9318.4	9323.3	9305.6	9275.2
17.5°	9204.6	9183.0	9177.1	9098.6	9066.2
20°	9035.8	9027.9	8979.9	8882.7	8839.6
22.5°	8858.2	8843.5	8760.1	8643.3	8591.3
25°	8650.2	8643.3	8503.0	8382.3	8316.6
27.5°	8426.5	8409.8	8229.3	8078.1	7988.9
30°	8205.7	8164.5	7937.8	7725.9	7598.3
32.5°	7955.5	7878.0	7607.2	7336.4	7189.2
35°	7669.0	7575.8	7245.1	6881.1	6720.2
37.5°	7391.3	7251.0	6852.6	6397.4	6191.3
40°	7077.3	6876.2	6411.1	5882.2	5654.6
42.5°	6746.7	6501.4	5941.1	5325.9	5092.4
45°	6414.0	6105.0	5412.3	4769.6	4560.6
47.5°	6018.6	5690.9	4862.8	4238.7	4059.2
50°	5637.9	5255.3	4307.4	3744.2	3621.6
52.5°	5239.6	4775.5	3767.8	3326.2	3207.5
55°	4825.5	4280.0	3274.2	2915.1	2820.9
57.5°	4409.5	3770.7	2836.6	2541.3	2372.5
60°	3973.8	3265.4	2448.1	2065.4	1569.9
62.5°	3545.0	2739.5	2060.5	1295.2	998.9
65°	3112.3	2286.2	1725.9	854.6	703.5
67.5°	2699.3	1847.6	1231.4	619.1	526.9
70°	2273.4	1511.0	793.8	443.5	368.9
72.5°	1846.6	1215.7	544.6	291.4	236.5
75°	1445.3	946.8	367.9	190.4	173.7
77.5°	1083.2	653.5	205.1	141.3	132.5
80°	736.9	391.5	124.6	107.9	102.0
82.5°	441.5	187.4	90.3	79.5	76.5
85°	224.7	72.6	56.9	49.1	46.1
87.5°	66.7	36.3	25.5	19.6	18.6
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)