

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: P565439

Luminaire Tested: **VHB-12-W-UNV-L940-CD1-U**

Issue Date: 9/7/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P565439  
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-12-W-UNV-L940-CD1-U  
Description: VHB LED HIGH BAY LUMINAIRE WITH WIDE DISTRIBUTION LENS AND 4000K, 90 CRI LEDS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

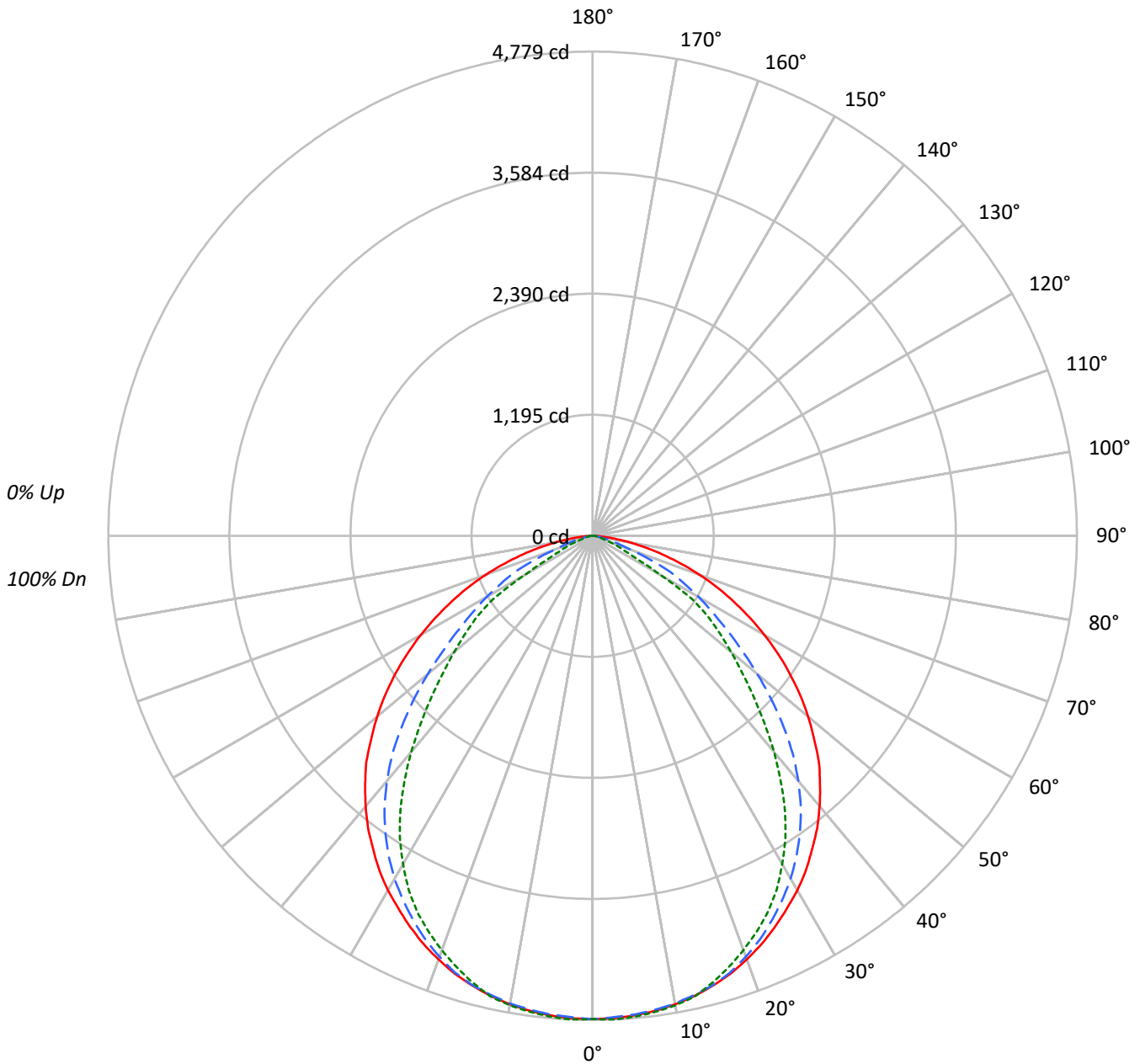
Lumens per Lamp: N/A  
Luminaire Lumens: 10729.0 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 87  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P565439

CATALOG NUMBER: VHB-12-W-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P565439

CATALOG NUMBER: VHB-12-W-UNV-L940-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
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°	29340	29340	29340
5°	29345	29285	29419
10°	29333	29270	29391
15°	29264	29233	29083
20°	29123	28942	28490
25°	28907	28415	27792
30°	28697	27760	26573
35°	28354	26787	24846
40°	27981	25348	22357
45°	27473	23182	19533
50°	26564	20296	17064
55°	25480	17289	14895
60°	24071	14828	9509
65°	22304	12368	5042
70°	20131	7030	3268
75°	16913	4306	2032
80°	12851	2175	1778
85°	7805	1976	1602



TEST NUMBER: P565439

CATALOG NUMBER: VHB-12-W-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.6	4.2
10°-20°	1292.0	12.0
20°-30°	1926.0	18.0
30°-40°	2218.1	20.7
40°-50°	2064.3	19.2
50°-60°	1570.8	14.6
60°-70°	843.2	7.9
70°-80°	310.2	2.9
80°-90°	52.8	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°	3669.7	34.2
0°-40°	5887.8	54.9
0°-60°	9522.9	88.8
0°-90°	10729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4770	4770	4770	4770	4770	
5°	4753	4739	4743	4759	4765	452
15°	4596	4588	4591	4582	4567	1297
25°	4259	4256	4187	4128	4095	1963
35°	3776	3730	3568	3388	3309	2364
45°	3158	3006	2665	2349	2246	2427
55°	2376	2108	1612	1435	1389	2122
65°	1532	1126	850	421	346	1520
75°	712	466	181	94	86	763
85°	111	36	28	24	23	147
90°	0	0	0	0	0	



TEST NUMBER: P565439

CATALOG NUMBER: VHB-12-W-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4770.1	4770.1	4770.1	4770.1	4770.1
2.5°	4766.7	4752.2	4757.0	4772.5	4778.8
5°	4752.7	4739.1	4743.0	4759.4	4764.8
7.5°	4729.5	4716.4	4719.3	4734.8	4740.1
10°	4696.6	4683.1	4686.5	4701.5	4705.8
12.5°	4652.2	4639.6	4642.5	4653.1	4658.0
15°	4595.7	4588.4	4590.8	4582.1	4567.2
17.5°	4532.4	4521.7	4518.8	4480.2	4464.2
20°	4449.3	4445.4	4421.7	4373.9	4352.6
22.5°	4361.8	4354.6	4313.5	4256.0	4230.4
25°	4259.4	4256.0	4186.9	4127.5	4095.1
27.5°	4149.2	4141.0	4052.1	3977.7	3933.7
30°	4040.5	4020.2	3908.6	3804.3	3741.5
32.5°	3917.3	3879.2	3745.8	3612.5	3540.0
35°	3776.2	3730.3	3567.5	3388.3	3309.0
37.5°	3639.5	3570.4	3374.3	3150.1	3048.6
40°	3484.9	3385.9	3156.9	2896.4	2784.4
42.5°	3322.1	3201.3	2925.4	2622.5	2507.5
45°	3158.3	3006.1	2665.0	2348.6	2245.6
47.5°	2963.6	2802.2	2394.5	2087.2	1998.8
50°	2776.1	2587.7	2121.0	1843.7	1783.3
52.5°	2580.0	2351.5	1855.3	1637.9	1579.4
55°	2376.1	2107.5	1612.2	1435.4	1389.0
57.5°	2171.2	1856.7	1396.8	1251.3	1168.2
60°	1956.7	1607.9	1205.4	1017.0	773.0
62.5°	1745.6	1348.9	1014.6	637.7	491.8
65°	1532.5	1125.7	849.8	420.8	346.4
67.5°	1329.1	909.8	606.3	304.9	259.4
70°	1119.4	744.0	390.9	218.4	181.7
72.5°	909.3	598.6	268.1	143.5	116.4
75°	711.7	466.2	181.2	93.7	85.5
77.5°	533.4	321.8	101.0	69.6	65.2
80°	362.8	192.8	61.4	53.1	50.2
82.5°	217.4	92.3	44.4	39.1	37.7
85°	110.6	35.8	28.0	24.2	22.7
87.5°	32.9	17.9	12.6	9.7	9.2
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)