

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: P565481

Luminaire Tested: **VHB-9-N-UNV-L940-CD1-U**

Issue Date: 9/7/2021



Test Information

Test Method: LM-79-08
Report Number: P565481
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-L940-CD1-U
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS AND 4000K, 90 CRI LEDS

Light Source: -
Ballast/Driver: -

Summary

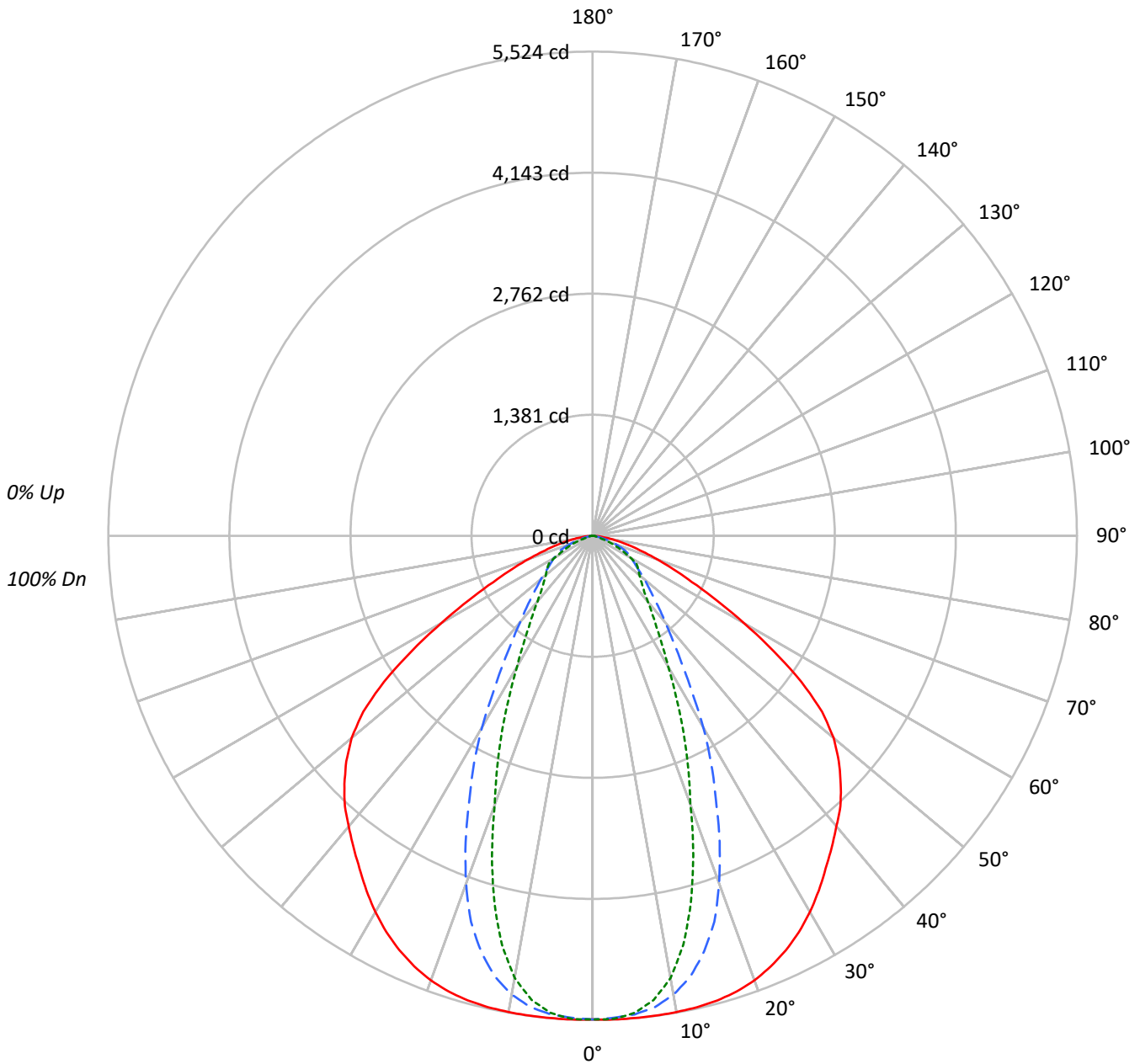
Lumens per Lamp: N/A
Luminaire Lumens: 7783.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P565481

CATALOG NUMBER: VHB-9-N-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P565481

CATALOG NUMBER: VHB-9-N-UNV-L940-CD1-U

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
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	44	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°	33945	33945	33945
5°	34104	33845	33747
10°	34462	33196	31984
15°	34954	31277	27578
20°	35330	27631	21352
25°	35401	22563	16544
30°	35203	17920	12245
35°	34801	13279	9522
40°	34746	10312	7858
45°	34819	8486	6981
50°	34326	7340	6658
55°	31161	6542	6727
60°	24499	6253	6130
65°	18195	6060	4612
70°	13955	4852	2816
75°	10623	3460	1554
80°	7800	1608	1254
85°	4884	1383	1115



TEST NUMBER: P565481

CATALOG NUMBER: VHB-9-N-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.5	6.7
10°-20°	1364.9	17.5
20°-30°	1648.3	21.2
30°-40°	1473.8	18.9
40°-50°	1154.1	14.8
50°-60°	872.0	11.2
60°-70°	517.9	6.7
70°-80°	199.0	2.6
80°-90°	34.6	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°	3531.7	45.4
0°-40°	5005.4	64.3
0°-60°	7031.5	90.3
0°-90°	7783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5519	5519	5519	5519	5519	
5°	5524	5500	5482	5474	5466	527
15°	5489	5308	4912	4501	4331	1551
25°	5216	4603	3325	2621	2438	2402
35°	4635	3298	1768	1379	1268	2906
45°	4003	1706	976	824	802	3081
55°	2906	925	610	608	627	2552
65°	1250	520	416	347	317	1288
75°	447	250	146	72	65	489
85°	69	24	20	17	16	92
90°	0	0	0	0	0	



TEST NUMBER: P565481

CATALOG NUMBER: VHB-9-N-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5518.8	5518.8	5518.8	5518.8	5518.8
2.5°	5523.9	5505.7	5504.3	5516.0	5517.7
5°	5523.6	5499.5	5481.6	5474.4	5465.8
7.5°	5521.9	5485.4	5425.2	5367.4	5340.5
10°	5517.7	5453.0	5315.0	5183.6	5121.0
12.5°	5508.8	5395.2	5151.6	4910.0	4778.6
15°	5489.2	5308.2	4911.7	4501.2	4330.8
17.5°	5453.7	5188.1	4617.8	4038.3	3819.1
20°	5397.6	5035.3	4221.4	3510.4	3262.0
22.5°	5317.1	4835.7	3784.7	3035.2	2836.6
25°	5216.3	4602.7	3324.6	2621.2	2437.8
27.5°	5096.5	4330.8	2928.2	2235.8	2055.1
30°	4956.5	4013.2	2523.1	1871.7	1724.1
32.5°	4799.9	3678.7	2100.2	1594.0	1472.5
35°	4634.7	3298.1	1768.5	1378.9	1268.1
37.5°	4479.2	2890.7	1497.6	1188.6	1110.8
40°	4327.4	2462.6	1284.3	1038.2	978.7
42.5°	4184.2	2053.1	1121.2	912.3	873.4
45°	4002.9	1705.5	975.6	824.2	802.5
47.5°	3810.5	1439.5	860.0	752.6	745.0
50°	3587.2	1226.1	767.1	690.3	695.8
52.5°	3297.4	1057.5	679.0	646.3	662.4
55°	2905.8	925.4	610.1	607.7	627.3
57.5°	2447.1	799.1	555.8	570.9	592.9
60°	1991.5	697.5	508.3	530.3	498.3
62.5°	1590.9	604.3	463.2	422.9	395.4
65°	1250.2	519.6	416.4	347.2	316.9
67.5°	996.9	440.8	350.3	276.3	251.2
70°	776.0	370.6	269.8	207.5	156.6
72.5°	594.7	309.7	210.6	118.0	89.1
75°	447.0	249.8	145.6	71.9	65.4
77.5°	318.7	185.5	77.8	52.0	48.2
80°	220.2	119.1	45.4	37.5	35.4
82.5°	136.6	57.5	31.0	26.8	25.1
85°	69.2	24.1	19.6	17.2	15.8
87.5°	23.1	11.7	8.9	8.3	7.6
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)