

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: P563392

Luminaire Tested: **VHB-9-W-UNV-L940-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-9-W-UNV-L940-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

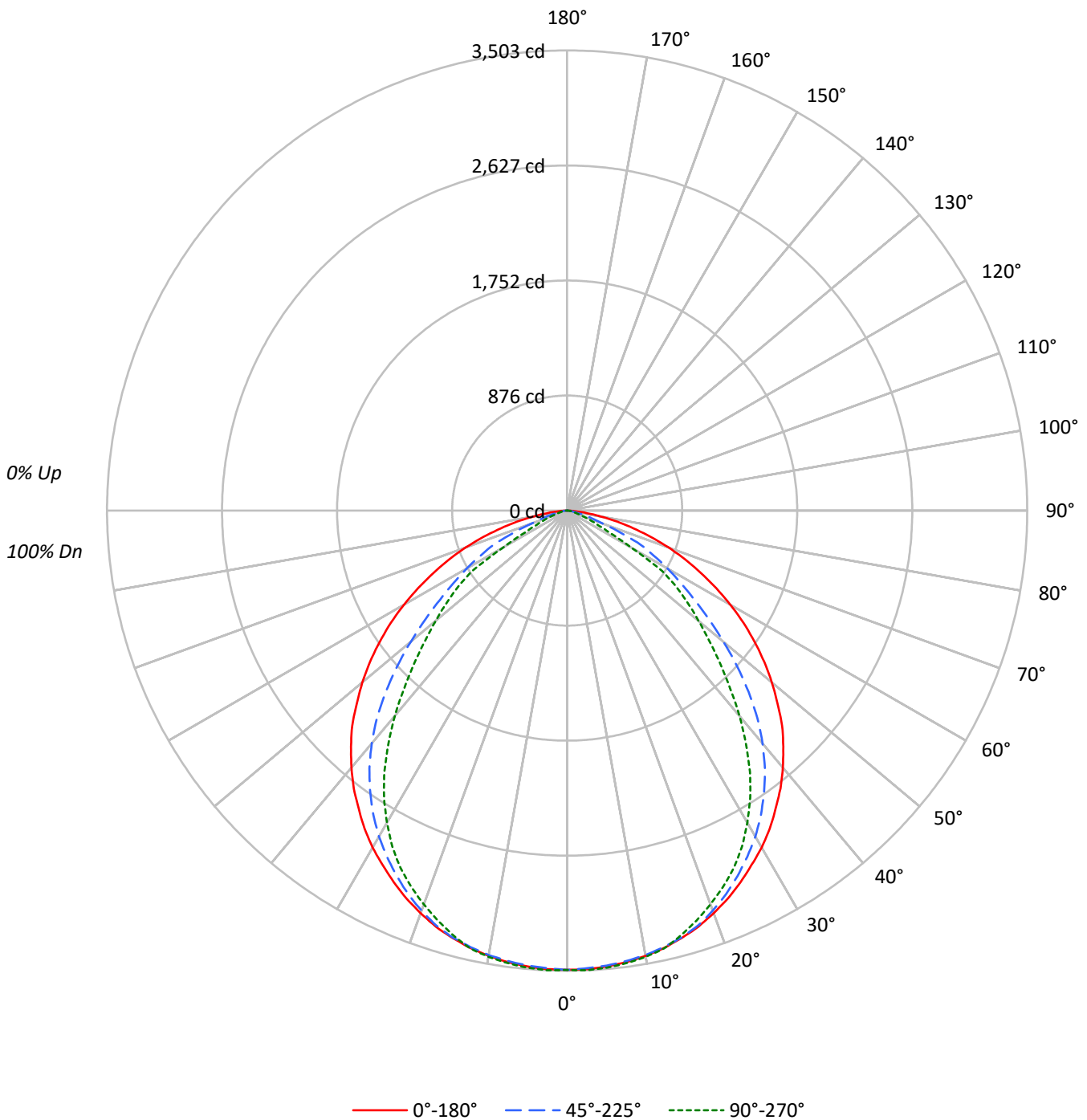
Lumens per Lamp: N/A
Luminaire Lumens: 7864.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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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CATALOG NUMBER: VHB-9-W-UNV-L940-CD

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	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°	20374	20374	20374
5°	20377	20336	20429
10°	20370	20325	20409
15°	20321	20300	20195
20°	20223	20098	19784
25°	20073	19732	19299
30°	19928	19277	18453
35°	19690	18602	17254
40°	19430	17601	15524
45°	19077	16098	13565
50°	18446	14093	11850
55°	17694	12005	10343
60°	16715	10298	6603
65°	15488	8589	3501
70°	13979	4881	2268
75°	11744	2990	1412
80°	8926	1510	1235
85°	5422	1371	1117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	4.2
10°-20°	947.0	12.0
20°-30°	1411.7	18.0
30°-40°	1625.8	20.7
40°-50°	1513.1	19.2
50°-60°	1151.3	14.6
60°-70°	618.0	7.9
70°-80°	227.4	2.9
80°-90°	38.7	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°	2689.7	34.2
0°-40°	4315.6	54.9
0°-60°	6980.0	88.8
0°-90°	7864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3496	3496	3496	3496	3496	
5°	3484	3474	3476	3488	3492	331
15°	3368	3363	3365	3358	3348	951
25°	3122	3120	3069	3025	3002	1439
35°	2768	2734	2615	2484	2425	1733
45°	2315	2203	1953	1721	1646	1779
55°	1742	1545	1182	1052	1018	1556
65°	1123	825	623	308	254	1114
75°	522	342	133	69	63	559
85°	81	26	20	18	17	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3493.8	3483.2	3486.8	3498.1	3502.7
5°	3483.6	3473.6	3476.5	3488.5	3492.4
7.5°	3466.6	3457.0	3459.1	3470.5	3474.4
10°	3442.5	3432.6	3435.0	3446.0	3449.2
12.5°	3409.9	3400.7	3402.8	3410.6	3414.1
15°	3368.5	3363.1	3364.9	3358.5	3347.6
17.5°	3322.1	3314.3	3312.2	3283.8	3272.1
20°	3261.2	3258.3	3241.0	3205.9	3190.3
22.5°	3197.1	3191.7	3161.6	3119.5	3100.7
25°	3122.0	3119.5	3068.9	3025.3	3001.6
27.5°	3041.3	3035.2	2970.1	2915.5	2883.3
30°	2961.6	2946.7	2864.9	2788.4	2742.4
32.5°	2871.3	2843.3	2745.5	2647.8	2594.7
35°	2767.9	2734.2	2614.9	2483.5	2425.4
37.5°	2667.6	2617.0	2473.2	2308.9	2234.5
40°	2554.3	2481.7	2313.9	2123.0	2040.8
42.5°	2435.0	2346.4	2144.3	1922.2	1837.9
45°	2314.9	2203.4	1953.4	1721.4	1646.0
47.5°	2172.2	2054.0	1755.1	1529.8	1465.0
50°	2034.8	1896.7	1554.6	1351.4	1307.1
52.5°	1891.1	1723.6	1359.9	1200.5	1157.6
55°	1741.6	1544.7	1181.7	1052.1	1018.1
57.5°	1591.4	1360.9	1023.8	917.2	856.3
60°	1434.2	1178.5	883.6	745.4	566.6
62.5°	1279.5	988.7	743.7	467.4	360.5
65°	1123.3	825.1	622.9	308.4	253.9
67.5°	974.2	666.8	444.4	223.4	190.2
70°	820.5	545.3	286.5	160.1	133.1
72.5°	666.5	438.8	196.6	105.2	85.3
75°	521.6	341.7	132.8	68.7	62.7
77.5°	390.9	235.8	74.0	51.0	47.8
80°	266.0	141.3	45.0	39.0	36.8
82.5°	159.4	67.6	32.6	28.7	27.6
85°	81.1	26.2	20.5	17.7	16.7
87.5°	24.1	13.1	9.2	7.1	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)