

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: P563320

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

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-9-N-UNV-L940-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

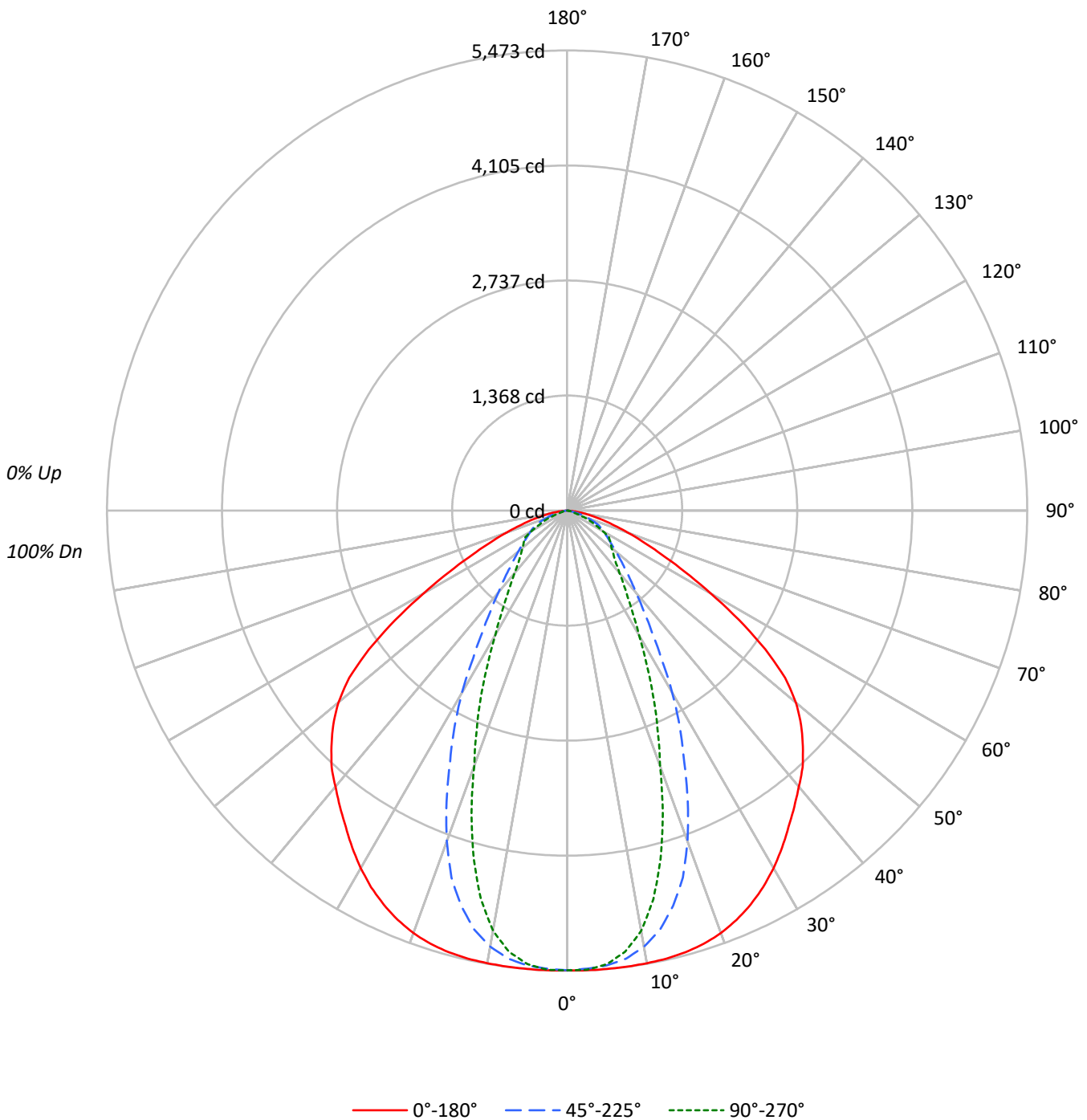
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7711.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
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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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	108	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		68	62	58		66	61	57	55
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44		54	48	44		53	47	44	42
9	65	53	46	41	63	52	45	41	51	45	41		50	44	40		49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	38		47	41	37		46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31861	31861	31861
5°	32011	31768	31676
10°	32347	31159	30021
15°	32809	29357	25885
20°	33162	25936	20041
25°	33228	21178	15529
30°	33042	16820	11493
35°	32665	12464	8938
40°	32614	9679	7376
45°	32683	7966	6552
50°	32219	6889	6250
55°	29248	6141	6315
60°	22995	5869	5754
65°	17080	5688	4330
70°	13098	4554	2643
75°	9972	3247	1459
80°	7322	1510	1178
85°	4580	1297	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.7	6.7
10°-20°	1352.3	17.5
20°-30°	1633.0	21.2
30°-40°	1460.1	18.9
40°-50°	1143.4	14.8
50°-60°	863.9	11.2
60°-70°	513.1	6.7
70°-80°	197.2	2.6
80°-90°	34.3	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°	3499.0	45.4
0°-40°	4959.1	64.3
0°-60°	6966.4	90.3
0°-90°	7711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5468	5468	5468	5468	5468	
5°	5472	5449	5431	5424	5415	522
15°	5438	5259	4866	4460	4291	1537
25°	5168	4560	3294	2597	2415	2380
35°	4592	3268	1752	1366	1256	2880
45°	3966	1690	967	817	795	3053
55°	2879	917	604	602	622	2528
65°	1239	515	412	344	314	1276
75°	443	248	144	71	65	485
85°	68	24	19	17	16	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5467.7	5467.7	5467.7	5467.7	5467.7
2.5°	5472.9	5454.8	5453.4	5465.0	5466.7
5°	5472.5	5448.6	5430.9	5423.8	5415.2
7.5°	5470.8	5434.7	5375.0	5317.7	5291.1
10°	5466.7	5402.6	5265.9	5135.7	5073.6
12.5°	5457.8	5345.3	5103.9	4864.6	4734.3
15°	5438.4	5259.1	4866.3	4459.5	4290.8
17.5°	5403.2	5140.0	4575.1	4001.0	3783.8
20°	5347.7	4988.7	4182.4	3478.0	3231.8
22.5°	5267.9	4791.0	3749.7	3007.1	2810.4
25°	5168.0	4560.1	3293.9	2597.0	2415.2
27.5°	5049.4	4290.8	2901.1	2215.1	2036.1
30°	4910.6	3976.1	2499.8	1854.4	1708.1
32.5°	4755.5	3644.7	2080.8	1579.2	1458.9
35°	4591.8	3267.6	1752.1	1366.1	1256.4
37.5°	4437.7	2863.9	1483.8	1177.6	1100.6
40°	4287.4	2439.8	1272.4	1028.6	969.7
42.5°	4145.5	2034.1	1110.8	903.9	865.3
45°	3965.9	1689.7	966.6	816.6	795.1
47.5°	3775.2	1426.1	852.0	745.6	738.1
50°	3554.0	1214.8	759.9	683.9	689.4
52.5°	3266.9	1047.7	672.7	640.3	656.3
55°	2878.9	916.8	604.5	602.1	621.6
57.5°	2424.5	791.7	550.6	565.6	587.4
60°	1973.1	691.1	503.6	525.4	493.7
62.5°	1576.2	598.7	458.9	419.0	391.8
65°	1238.7	514.8	412.5	344.0	314.0
67.5°	987.7	436.7	347.1	273.8	248.9
70°	768.8	367.2	267.3	205.6	155.1
72.5°	589.2	306.9	208.6	117.0	88.3
75°	442.9	247.5	144.2	71.3	64.8
77.5°	315.7	183.8	77.0	51.5	47.7
80°	218.2	118.0	45.0	37.2	35.1
82.5°	135.3	57.0	30.7	26.6	24.9
85°	68.5	23.9	19.4	17.0	15.7
87.5°	22.8	11.6	8.8	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)