

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: P563319

Luminaire Tested: **VHB-9-N-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563319
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-L935-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

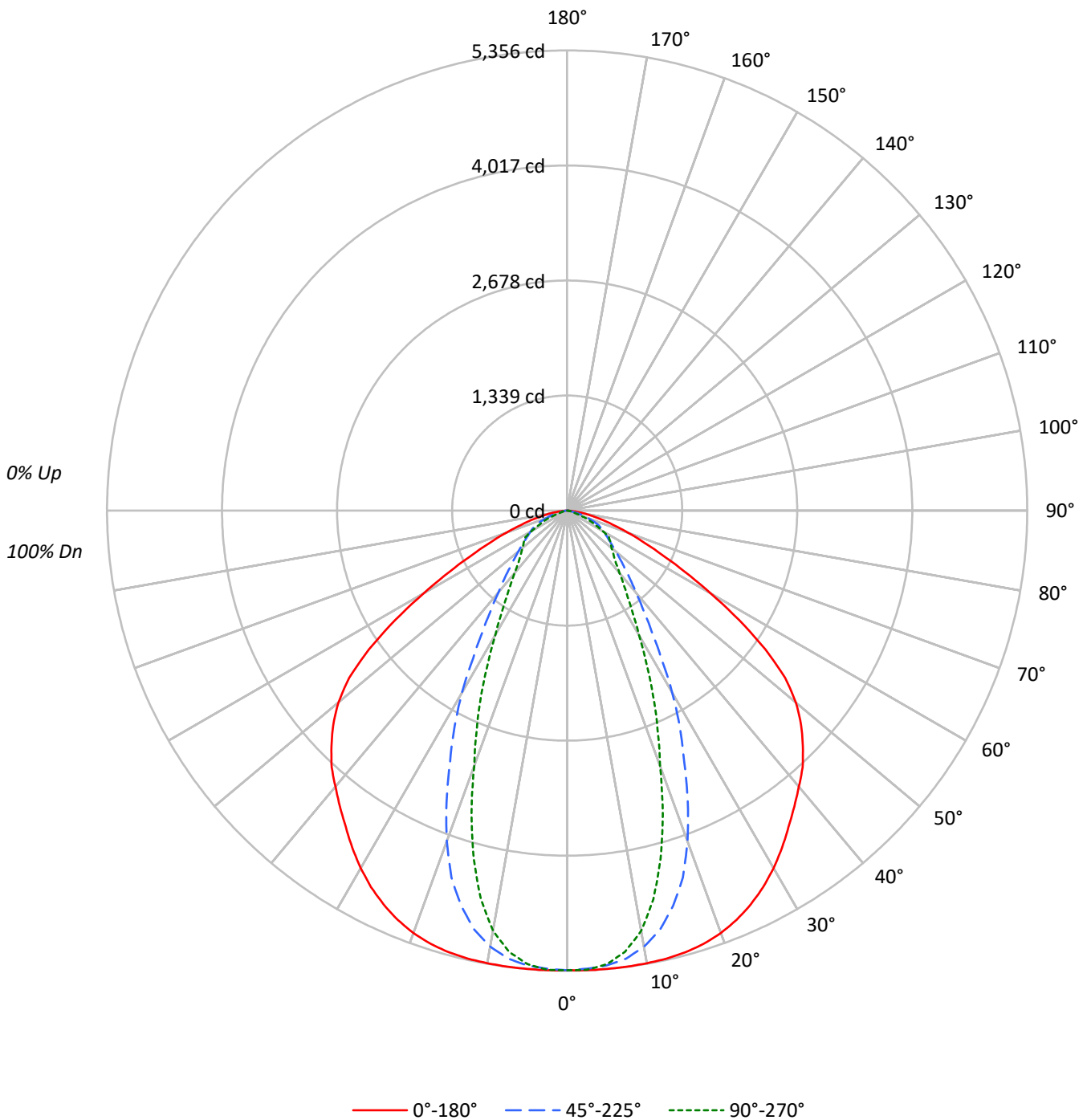
Lumens per Lamp: N/A
Luminaire Lumens: 7546.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	31180	31180	31180
5°	31326	31088	30998
10°	31655	30492	29378
15°	32106	28729	25331
20°	32453	25381	19612
25°	32518	20725	15196
30°	32335	16460	11248
35°	31966	12197	8746
40°	31916	9472	7218
45°	31983	7795	6412
50°	31529	6742	6116
55°	28622	6009	6180
60°	22502	5743	5630
65°	16714	5566	4237
70°	12819	4455	2586
75°	9758	3179	1427
80°	7165	1480	1151
85°	4480	1270	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	6.7
10°-20°	1323.3	17.5
20°-30°	1598.1	21.2
30°-40°	1428.9	18.9
40°-50°	1118.9	14.8
50°-60°	845.4	11.2
60°-70°	502.1	6.7
70°-80°	193.0	2.6
80°-90°	33.5	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°	3424.2	45.4
0°-40°	4853.0	64.3
0°-60°	6817.4	90.3
0°-90°	7546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5351	5351	5351	5351	5351	
5°	5355	5332	5315	5308	5299	511
15°	5322	5146	4762	4364	4199	1504
25°	5058	4463	3223	2541	2364	2329
35°	4494	3198	1715	1337	1230	2818
45°	3881	1654	946	799	778	2987
55°	2817	897	592	589	608	2474
65°	1212	504	404	337	307	1249
75°	433	242	141	70	63	474
85°	67	23	19	17	15	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5350.7	5350.7	5350.7	5350.7	5350.7
2.5°	5355.7	5338.1	5336.7	5348.0	5349.7
5°	5355.4	5332.0	5314.7	5307.7	5299.3
7.5°	5353.7	5318.4	5260.0	5203.9	5177.9
10°	5349.7	5287.0	5153.2	5025.8	4965.0
12.5°	5341.0	5230.9	4994.7	4760.5	4633.0
15°	5322.0	5146.5	4762.2	4364.1	4198.9
17.5°	5287.6	5030.1	4477.2	3915.4	3702.8
20°	5233.3	4881.9	4092.9	3403.6	3162.7
22.5°	5155.2	4688.5	3669.5	2942.8	2750.3
25°	5057.5	4462.6	3223.4	2541.4	2363.5
27.5°	4941.4	4198.9	2839.0	2167.7	1992.5
30°	4805.6	3891.0	2446.3	1814.7	1671.6
32.5°	4653.7	3566.7	2036.3	1545.4	1427.7
35°	4493.6	3197.7	1714.6	1336.9	1229.5
37.5°	4342.7	2802.6	1452.1	1152.4	1077.0
40°	4195.7	2387.6	1245.2	1006.6	948.9
42.5°	4056.8	1990.6	1087.0	884.5	846.8
45°	3881.0	1653.6	945.9	799.1	778.1
47.5°	3694.5	1395.6	833.8	729.7	722.3
50°	3477.9	1188.8	743.7	669.3	674.6
52.5°	3197.0	1025.3	658.3	626.6	642.3
55°	2817.3	897.2	591.5	589.2	608.3
57.5°	2372.6	774.7	538.8	553.5	574.9
60°	1930.8	676.3	492.8	514.1	483.1
62.5°	1542.5	585.9	449.1	410.0	383.4
65°	1212.2	503.8	403.7	336.7	307.3
67.5°	966.6	427.4	339.6	267.9	243.6
70°	752.4	359.3	261.5	201.2	151.8
72.5°	576.6	300.3	204.2	114.5	86.4
75°	433.4	242.2	141.2	69.8	63.4
77.5°	309.0	179.9	75.4	50.4	46.7
80°	213.5	115.5	44.1	36.4	34.3
82.5°	132.4	55.7	30.1	26.0	24.4
85°	67.0	23.4	19.0	16.7	15.3
87.5°	22.3	11.4	8.6	8.0	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)