

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: P563267

Luminaire Tested: **VHB-15-N-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563267
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-15-N-UNV-L950-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 90CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

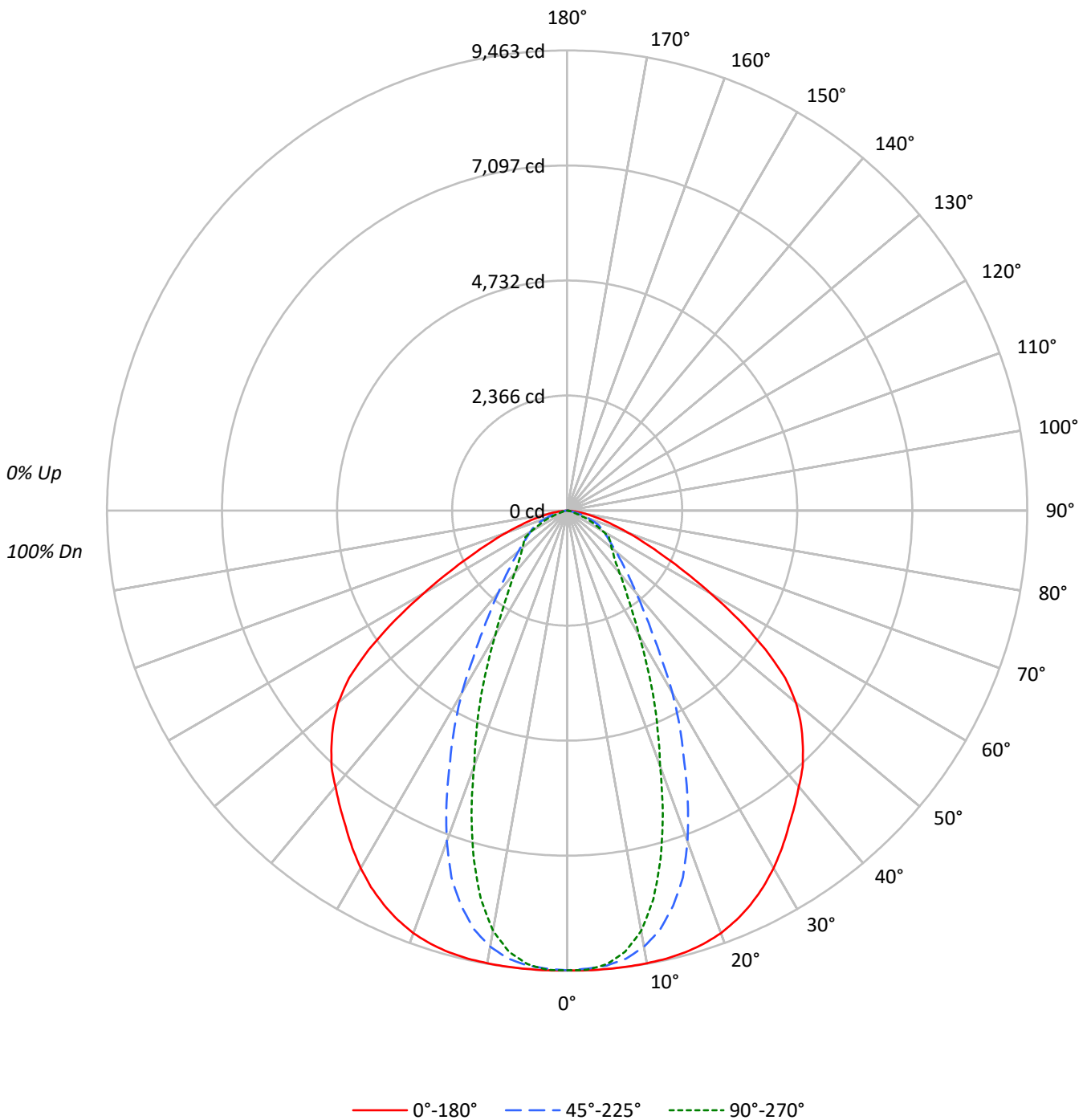
Lumens per Lamp: N/A
Luminaire Lumens: 13333.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 104
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°	55091	55091	55091
5°	55350	54929	54770
10°	55931	53876	51909
15°	56729	50761	44758
20°	57340	44845	34653
25°	57455	36619	26851
30°	57132	29084	19873
35°	56481	21552	15453
40°	56392	16736	12754
45°	56510	13773	11330
50°	55708	11912	10806
55°	50572	10619	10918
60°	39760	10147	9949
65°	29532	9835	7487
70°	22650	7873	4571
75°	17242	5615	2522
80°	12658	2614	2037
85°	7923	2246	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.2	6.7
10°-20°	2338.2	17.5
20°-30°	2823.7	21.2
30°-40°	2524.7	18.9
40°-50°	1977.0	14.8
50°-60°	1493.8	11.2
60°-70°	887.2	6.7
70°-80°	341.0	2.6
80°-90°	59.2	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°	6050.1	45.4
0°-40°	8574.8	64.3
0°-60°	12045.6	90.3
0°-90°	13333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9454	9454	9454	9454	9454	
5°	9462	9421	9390	9378	9363	903
15°	9404	9093	8414	7711	7419	2657
25°	8936	7885	5695	4490	4176	4114
35°	7940	5650	3030	2362	2172	4979
45°	6857	2922	1671	1412	1375	5278
55°	4978	1585	1045	1041	1075	4371
65°	2142	890	713	595	543	2207
75°	766	428	249	123	112	838
85°	118	41	34	29	27	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9454.1	9454.1	9454.1	9454.1	9454.1
2.5°	9463.0	9431.8	9429.4	9449.4	9452.4
5°	9462.4	9421.1	9390.5	9378.2	9363.3
7.5°	9459.5	9397.0	9293.8	9194.8	9148.8
10°	9452.4	9341.6	9105.2	8880.0	8772.7
12.5°	9437.1	9242.5	8825.1	8411.3	8186.1
15°	9403.5	9093.4	8414.3	7710.9	7419.1
17.5°	9342.7	8887.6	7910.8	6918.0	6542.5
20°	9246.6	8625.9	7231.7	6013.7	5588.1
22.5°	9108.7	8284.0	6483.6	5199.6	4859.5
25°	8936.0	7884.9	5695.4	4490.4	4176.1
27.5°	8730.9	7419.1	5016.2	3830.1	3520.6
30°	8490.9	6875.0	4322.4	3206.4	2953.5
32.5°	8222.7	6302.0	3597.9	2730.6	2522.6
35°	7939.7	5650.0	3029.6	2362.2	2172.3
37.5°	7673.2	4951.9	2565.6	2036.3	1903.0
40°	7413.3	4218.6	2200.1	1778.6	1676.6
42.5°	7168.0	3517.1	1920.7	1562.9	1496.2
45°	6857.3	2921.7	1671.3	1411.9	1374.8
47.5°	6527.7	2465.9	1473.2	1289.2	1276.3
50°	6145.1	2100.5	1314.0	1182.6	1192.0
52.5°	5648.8	1811.6	1163.1	1107.1	1134.9
55°	4977.9	1585.3	1045.2	1041.1	1074.7
57.5°	4192.1	1368.9	952.0	978.0	1015.7
60°	3411.6	1195.0	870.7	908.4	853.7
62.5°	2725.4	1035.3	793.5	724.5	677.4
65°	2141.8	890.1	713.3	594.9	543.0
67.5°	1707.9	755.2	600.1	473.4	430.3
70°	1329.4	634.9	462.1	355.5	268.3
72.5°	1018.7	530.6	360.7	202.2	152.7
75°	765.8	428.0	249.4	123.3	112.0
77.5°	545.9	317.8	133.2	89.0	82.5
80°	377.2	204.0	77.9	64.2	60.7
82.5°	234.0	98.5	53.1	46.0	43.1
85°	118.5	41.3	33.6	29.4	27.1
87.5°	39.5	20.1	15.3	14.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)