

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: P563264

Luminaire Tested: **VHB-15-N-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563264
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-L850-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

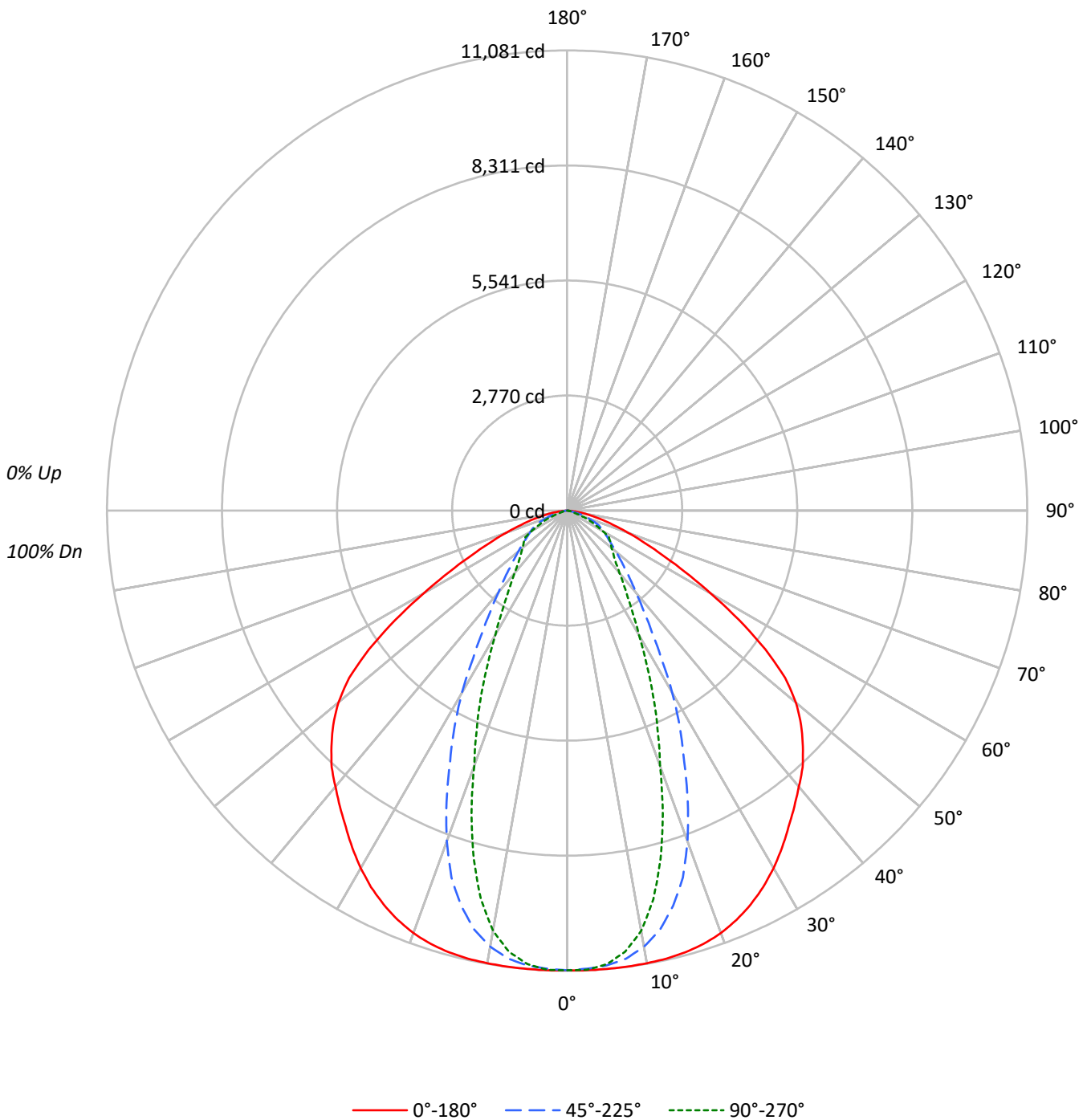
Lumens per Lamp: N/A
Luminaire Lumens: 15612.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	64508	64508	64508
5°	64811	64319	64132
10°	65491	63086	60781
15°	66425	59438	52408
20°	67141	52510	40575
25°	67275	42878	31441
30°	66898	34055	23270
35°	66134	25235	18095
40°	66031	19597	14934
45°	66170	16127	13266
50°	65231	13948	12653
55°	59217	12433	12785
60°	46557	11883	11650
65°	34580	11517	8767
70°	26521	9219	5351
75°	20187	6574	2952
80°	14822	3060	2386
85°	9273	2628	2119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.1	6.7
10°-20°	2737.9	17.5
20°-30°	3306.3	21.2
30°-40°	2956.2	18.9
40°-50°	2314.9	14.8
50°-60°	1749.1	11.2
60°-70°	1038.9	6.7
70°-80°	399.2	2.6
80°-90°	69.4	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°	7084.3	45.4
0°-40°	10040.5	64.3
0°-60°	14104.5	90.3
0°-90°	15612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11070	11070	11070	11070	11070	
5°	11080	11031	10996	10981	10964	###
15°	11011	10648	9852	9029	8687	3111
25°	10463	9233	6669	5258	4890	4818
35°	9297	6616	3547	2766	2544	5830
45°	8030	3421	1957	1653	1610	6181
55°	5829	1856	1224	1219	1258	5119
65°	2508	1042	835	697	636	2584
75°	897	501	292	144	131	982
85°	139	48	39	34	32	185
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11070.1	11070.1	11070.1	11070.1	11070.1
2.5°	11080.6	11044.0	11041.1	11064.6	11068.1
5°	11079.8	11031.4	10995.7	10981.2	10963.8
7.5°	11076.4	11003.2	10882.4	10766.4	10712.6
10°	11068.1	10938.3	10661.6	10397.8	10272.2
12.5°	11050.1	10822.3	10333.6	9849.0	9585.3
15°	11010.8	10647.7	9852.5	9028.9	8687.2
17.5°	10939.6	10406.7	9263.0	8100.5	7660.8
20°	10827.2	10100.3	8467.8	7041.7	6543.2
22.5°	10665.6	9700.0	7591.8	6088.3	5690.1
25°	10463.4	9232.7	6668.9	5257.9	4890.0
27.5°	10223.2	8687.2	5873.6	4484.8	4122.4
30°	9942.3	8050.1	5061.2	3754.4	3458.3
32.5°	9628.2	7379.2	4212.9	3197.4	2953.8
35°	9296.8	6615.7	3547.4	2766.0	2543.7
37.5°	8984.8	5798.4	3004.2	2384.3	2228.2
40°	8680.4	4939.7	2576.2	2082.6	1963.2
42.5°	8393.2	4118.3	2249.0	1830.0	1751.9
45°	8029.5	3421.1	1957.0	1653.3	1609.8
47.5°	7643.5	2887.4	1725.0	1509.6	1494.5
50°	7195.5	2459.5	1538.6	1384.7	1395.7
52.5°	6614.3	2121.3	1361.9	1296.3	1328.8
55°	5828.8	1856.2	1223.8	1219.0	1258.4
57.5°	4908.6	1602.9	1114.8	1145.2	1189.3
60°	3994.8	1399.2	1019.6	1063.7	999.6
62.5°	3191.2	1212.2	929.2	848.3	793.2
65°	2507.9	1042.3	835.3	696.6	635.8
67.5°	1999.8	884.2	702.7	554.3	503.9
70°	1556.6	743.4	541.1	416.3	314.1
72.5°	1192.9	621.3	422.4	236.8	178.8
75°	896.6	501.2	292.0	144.3	131.1
77.5°	639.2	372.1	156.0	104.2	96.7
80°	441.7	238.9	91.2	75.2	71.1
82.5°	274.0	115.3	62.2	53.8	50.4
85°	138.7	48.3	39.3	34.5	31.7
87.5°	46.2	23.5	17.9	16.6	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)