

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: P563336

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

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563336
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-15-W-UNV-L850-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

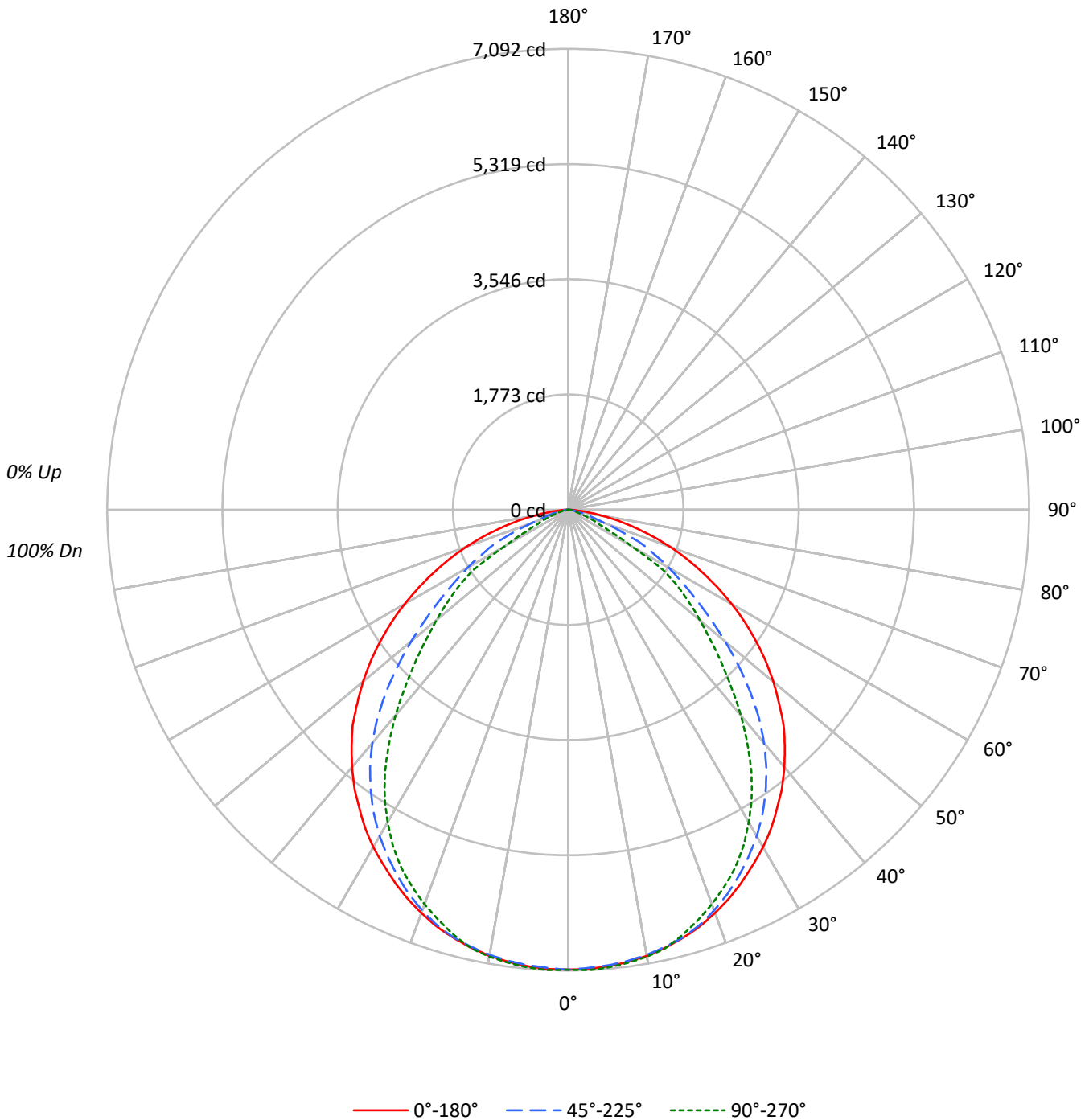
Lumens per Lamp: N/A
Luminaire Lumens: 15923.0 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	41252	41252	41252
5°	41259	41175	41364
10°	41244	41155	41324
15°	41146	41103	40891
20°	40948	40694	40058
25°	40644	39953	39076
30°	40349	39032	37363
35°	39868	37664	34935
40°	39343	35639	31433
45°	38627	32594	27465
50°	37351	28536	23993
55°	35826	24309	20944
60°	33844	20850	13371
65°	31360	17391	7089
70°	28306	9883	4593
75°	23780	6054	2857
80°	18071	3057	2500
85°	10978	2781	2253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.2	4.2
10°-20°	1917.5	12.0
20°-30°	2858.4	18.0
30°-40°	3291.9	20.7
40°-50°	3063.6	19.2
50°-60°	2331.2	14.6
60°-70°	1251.3	7.9
70°-80°	460.4	2.9
80°-90°	78.3	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°	5446.2	34.2
0°-40°	8738.1	54.9
0°-60°	14133.0	88.8
0°-90°	15923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7079	7079	7079	7079	7079	
5°	7054	7033	7039	7064	7071	671
15°	6820	6810	6813	6800	6778	1925
25°	6321	6316	6214	6126	6078	2914
35°	5604	5536	5295	5028	4911	3508
45°	4687	4461	3955	3486	3333	3602
55°	3526	3128	2393	2130	2062	3150
65°	2274	1671	1261	624	514	2255
75°	1056	692	269	139	127	1132
85°	164	53	42	36	34	219
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7079.3	7079.3	7079.3	7079.3	7079.3
2.5°	7074.3	7052.7	7060.0	7082.9	7092.2
5°	7053.5	7033.4	7039.1	7063.5	7071.4
7.5°	7019.1	6999.7	7004.0	7027.0	7034.9
10°	6970.3	6950.3	6955.3	6977.4	6983.9
12.5°	6904.3	6885.7	6890.0	6905.8	6913.0
15°	6820.5	6809.7	6813.3	6800.3	6778.2
17.5°	6726.5	6710.8	6706.4	6649.1	6625.4
20°	6603.2	6597.5	6562.3	6491.4	6459.8
22.5°	6473.4	6462.6	6401.7	6316.3	6278.4
25°	6321.4	6316.3	6213.9	6125.6	6077.6
27.5°	6157.9	6145.7	6013.8	5903.4	5838.1
30°	5996.6	5966.5	5800.8	5645.9	5552.8
32.5°	5813.7	5757.0	5559.2	5361.3	5253.8
35°	5604.4	5536.2	5294.6	5028.5	4910.9
37.5°	5401.4	5298.9	5007.8	4675.1	4524.5
40°	5172.0	5025.0	4685.1	4298.6	4132.2
42.5°	4930.3	4751.1	4341.7	3892.1	3721.4
45°	4687.2	4461.4	3955.2	3485.5	3332.8
47.5°	4398.3	4158.8	3553.7	3097.6	2966.4
50°	4120.1	3840.5	3147.8	2736.2	2646.6
52.5°	3829.0	3489.8	2753.4	2430.7	2344.0
55°	3526.4	3127.7	2392.8	2130.3	2061.5
57.5°	3222.3	2755.6	2073.0	1857.2	1733.8
60°	2904.0	2386.3	1789.0	1509.4	1147.3
62.5°	2590.6	2001.9	1505.8	946.5	729.9
65°	2274.4	1670.7	1261.3	624.5	514.1
67.5°	1972.6	1350.2	899.9	452.4	385.0
70°	1661.4	1104.2	580.1	324.1	269.6
72.5°	1349.5	888.4	398.0	213.0	172.8
75°	1056.2	691.9	268.9	139.1	126.9
77.5°	791.6	477.5	149.8	103.2	96.8
80°	538.5	286.1	91.1	78.9	74.5
82.5°	322.7	137.0	66.0	58.1	55.9
85°	164.2	53.0	41.6	35.8	33.7
87.5°	48.8	26.5	18.6	14.4	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)