

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: P563335

Luminaire Tested: **VHB-15-W-UNV-L840-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563335
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-L840-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

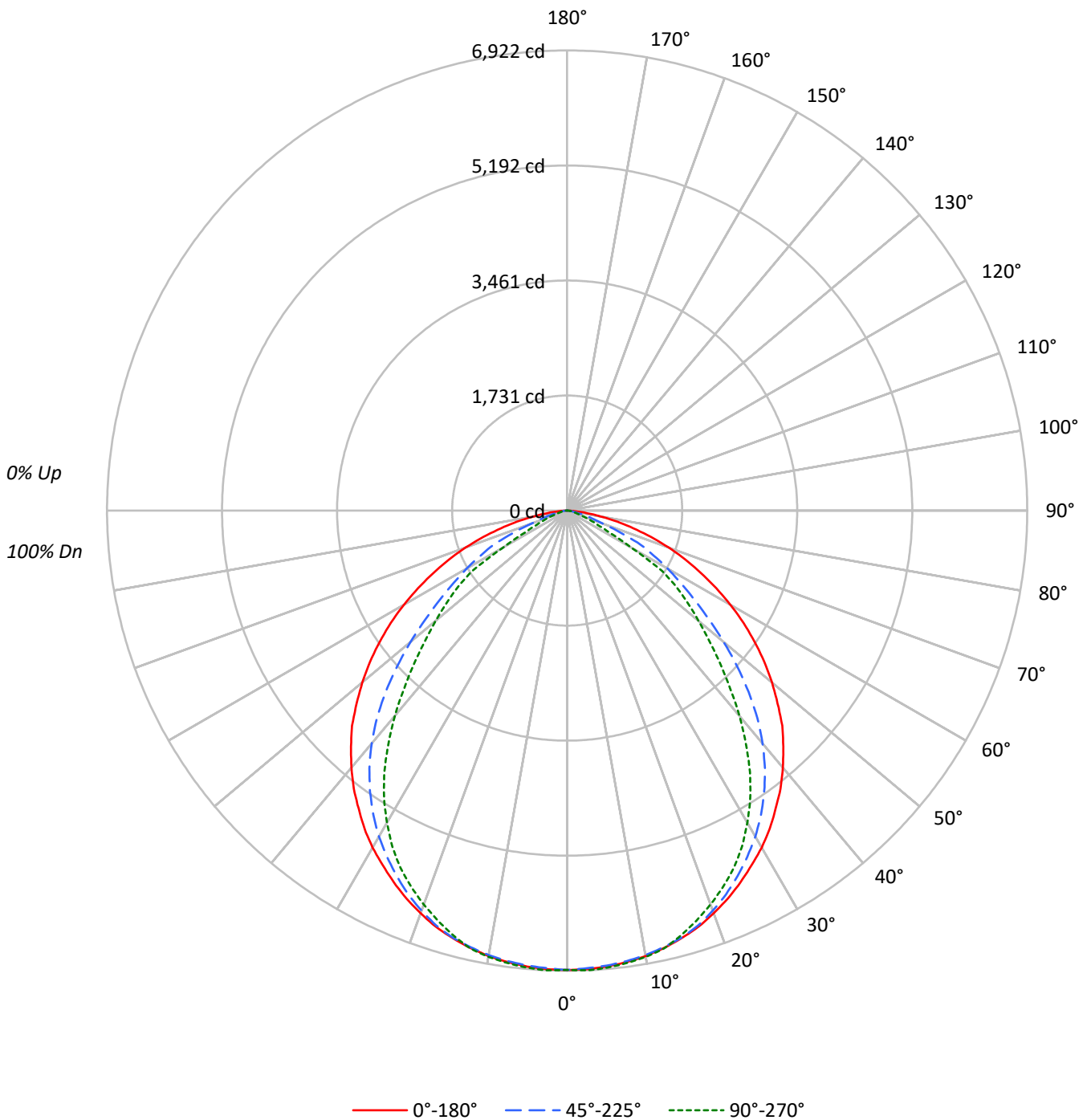
Lumens per Lamp: N/A
Luminaire Lumens: 15542.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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	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					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°	40265	40265	40265
5°	40272	40190	40374
10°	40257	40170	40336
15°	40162	40120	39913
20°	39968	39720	39100
25°	39672	38997	38142
30°	39384	38098	36469
35°	38914	36763	34099
40°	38401	34786	30681
45°	37703	31814	26808
50°	36457	27854	23418
55°	34969	23727	20443
60°	33034	20351	13051
65°	30610	16975	6919
70°	27628	9647	4483
75°	23210	5910	2790
80°	17638	2983	2443
85°	10718	2714	2200



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	4.2
10°-20°	1871.7	12.0
20°-30°	2790.0	18.0
30°-40°	3213.2	20.7
40°-50°	2990.3	19.2
50°-60°	2275.4	14.6
60°-70°	1221.4	7.9
70°-80°	449.4	2.9
80°-90°	76.4	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°	5315.9	34.2
0°-40°	8529.0	54.9
0°-60°	13794.8	88.8
0°-90°	15542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6910	6910	6910	6910	6910	
5°	6885	6865	6871	6894	6902	655
15°	6657	6647	6650	6638	6616	1879
25°	6170	6165	6065	5979	5932	2844
35°	5470	5404	5168	4908	4793	3424
45°	4575	4355	3860	3402	3253	3516
55°	3442	3053	2336	2079	2012	3074
65°	2220	1631	1231	610	502	2201
75°	1031	675	262	136	124	1105
85°	160	52	41	35	33	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6909.9	6909.9	6909.9	6909.9	6909.9
2.5°	6905.0	6884.0	6891.0	6913.4	6922.5
5°	6884.7	6865.1	6870.7	6894.5	6902.2
7.5°	6851.1	6832.2	6836.4	6858.8	6866.5
10°	6803.5	6784.0	6788.8	6810.5	6816.8
12.5°	6739.1	6720.9	6725.2	6740.6	6747.5
15°	6657.3	6646.7	6650.3	6637.6	6616.0
17.5°	6565.6	6550.2	6546.0	6490.0	6466.9
20°	6445.2	6439.6	6405.3	6336.0	6305.2
22.5°	6318.5	6308.0	6248.5	6165.2	6128.1
25°	6170.2	6165.2	6065.2	5979.0	5932.2
27.5°	6010.6	5998.7	5869.9	5762.1	5698.4
30°	5853.1	5823.7	5662.0	5510.8	5419.9
32.5°	5674.6	5619.3	5426.2	5233.0	5128.0
35°	5470.3	5403.8	5167.9	4908.2	4793.4
37.5°	5272.2	5172.1	4887.9	4563.2	4416.2
40°	5048.2	4904.7	4573.0	4195.8	4033.4
42.5°	4812.3	4637.4	4237.8	3798.9	3632.3
45°	4575.1	4354.7	3860.5	3402.1	3253.0
47.5°	4293.0	4059.3	3468.6	3023.5	2895.4
50°	4021.5	3748.6	3072.5	2670.8	2583.2
52.5°	3737.4	3406.3	2687.6	2372.6	2287.9
55°	3442.0	3052.8	2335.5	2079.3	2012.2
57.5°	3145.2	2689.7	2023.4	1812.7	1692.3
60°	2834.5	2329.2	1746.2	1473.2	1119.8
62.5°	2528.7	1954.0	1469.8	923.8	712.4
65°	2220.0	1630.7	1231.1	609.6	501.8
67.5°	1925.4	1317.9	878.3	441.6	375.8
70°	1621.6	1077.8	566.2	316.4	263.1
72.5°	1317.2	867.1	388.5	207.9	168.6
75°	1030.9	675.4	262.5	135.8	123.9
77.5°	772.6	466.1	146.3	100.7	94.5
80°	525.6	279.3	88.9	77.0	72.8
82.5°	315.0	133.7	64.4	56.7	54.6
85°	160.3	51.8	40.6	35.0	32.9
87.5°	47.6	25.9	18.2	14.0	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)