

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: P563338

Luminaire Tested: **VHB-15-W-UNV-L940-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563338
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-L940-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

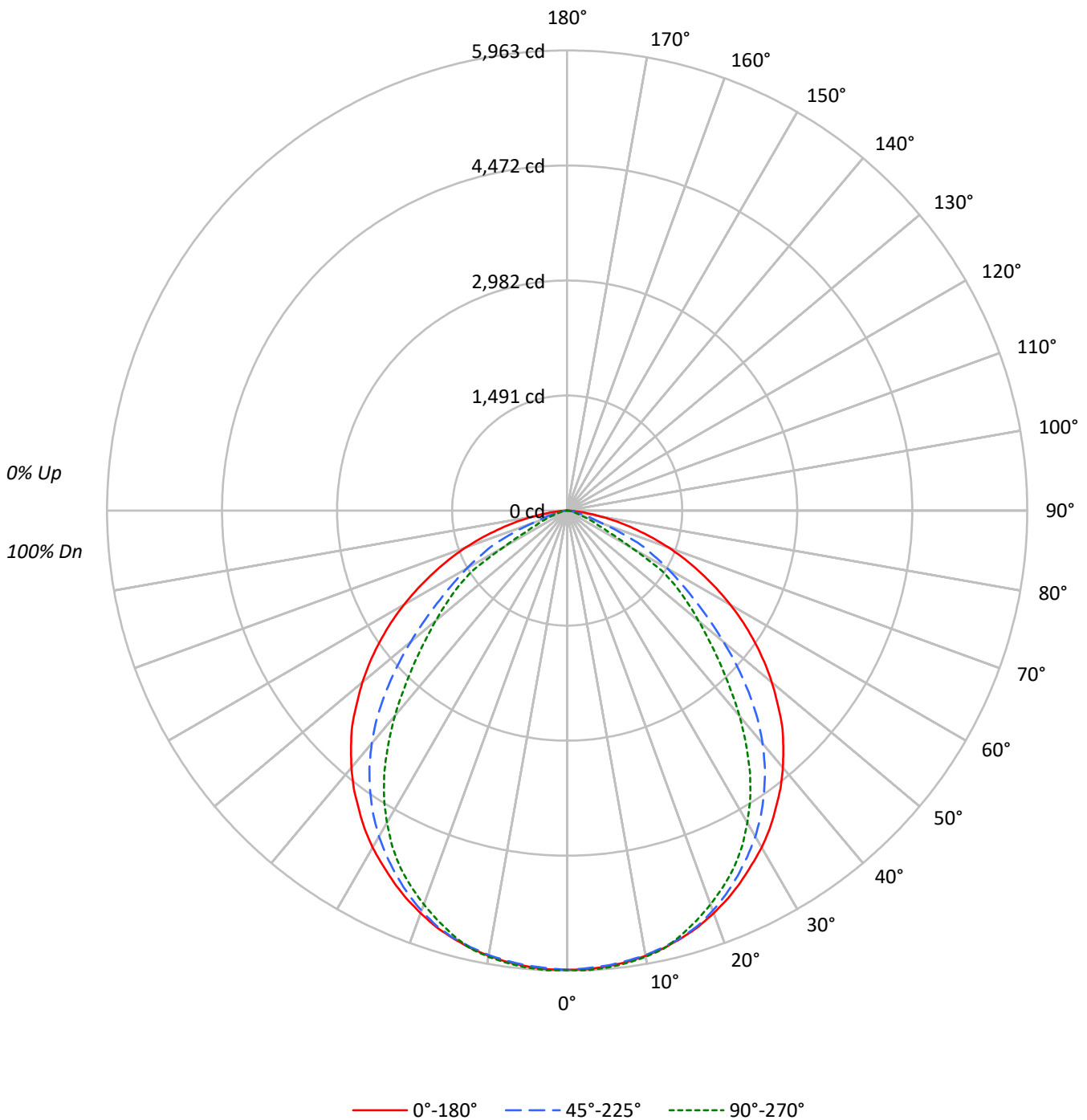
Lumens per Lamp: N/A
Luminaire Lumens: 13387.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

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°	34682	34682	34682
5°	34688	34617	34776
10°	34675	34600	34743
15°	34593	34557	34378
20°	34426	34213	33679
25°	34171	33589	32853
30°	33923	32816	31412
35°	33518	31665	29371
40°	33077	29963	26427
45°	32475	27403	23091
50°	31402	23991	20172
55°	30121	20438	17608
60°	28454	17529	11241
65°	26366	14621	5959
70°	23798	8309	3862
75°	19993	5091	2402
80°	15195	2570	2104
85°	9233	2333	1899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.5	4.2
10°-20°	1612.1	12.0
20°-30°	2403.2	18.0
30°-40°	2767.6	20.7
40°-50°	2575.7	19.2
50°-60°	1959.9	14.6
60°-70°	1052.1	7.9
70°-80°	387.1	2.9
80°-90°	65.8	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
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0°-30°	4578.8	34.2
0°-40°	7346.4	54.9
0°-60°	11882.1	88.8
0°-90°	13387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5952	5952	5952	5952	5952	
5°	5930	5913	5918	5939	5945	564
15°	5734	5725	5728	5717	5699	1618
25°	5315	5310	5224	5150	5110	2450
35°	4712	4654	4451	4228	4129	2950
45°	3941	3751	3325	2930	2802	3028
55°	2965	2630	2012	1791	1733	2648
65°	1912	1405	1060	525	432	1896
75°	888	582	226	117	107	952
85°	138	45	35	30	28	184
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5951.8	5951.8	5951.8	5951.8	5951.8
2.5°	5947.6	5929.5	5935.6	5954.8	5962.7
5°	5930.1	5913.2	5918.0	5938.6	5945.2
7.5°	5901.2	5884.9	5888.5	5907.8	5914.5
10°	5860.2	5843.3	5847.5	5866.2	5871.6
12.5°	5804.7	5789.0	5792.7	5805.9	5812.0
15°	5734.2	5725.1	5728.2	5717.3	5698.6
17.5°	5655.2	5642.0	5638.3	5590.1	5570.2
20°	5551.5	5546.7	5517.2	5457.5	5431.0
22.5°	5442.4	5433.3	5382.1	5310.4	5278.4
25°	5314.6	5310.4	5224.2	5150.0	5109.6
27.5°	5177.2	5166.9	5056.0	4963.2	4908.3
30°	5041.5	5016.2	4877.0	4746.7	4668.4
32.5°	4887.8	4840.1	4673.8	4507.4	4417.0
35°	4711.8	4654.5	4451.3	4227.7	4128.8
37.5°	4541.2	4454.9	4210.2	3930.5	3803.9
40°	4348.3	4224.7	3939.0	3614.0	3474.1
42.5°	4145.1	3994.4	3650.2	3272.2	3128.7
45°	3940.7	3750.9	3325.2	2930.4	2802.0
47.5°	3697.8	3496.5	2987.7	2604.2	2493.9
50°	3463.9	3228.8	2646.4	2300.5	2225.1
52.5°	3219.2	2934.0	2314.9	2043.6	1970.7
55°	2964.8	2629.5	2011.7	1791.0	1733.2
57.5°	2709.1	2316.7	1742.8	1561.4	1457.7
60°	2441.5	2006.2	1504.1	1269.0	964.5
62.5°	2178.0	1683.1	1266.0	795.7	613.7
65°	1912.2	1404.6	1060.4	525.1	432.2
67.5°	1658.4	1135.2	756.5	380.4	323.7
70°	1396.8	928.4	487.7	272.5	226.7
72.5°	1134.5	746.9	334.6	179.1	145.3
75°	888.0	581.7	226.1	117.0	106.7
77.5°	665.5	401.5	126.0	86.8	81.4
80°	452.8	240.6	76.6	66.3	62.7
82.5°	271.3	115.1	55.5	48.8	47.0
85°	138.1	44.6	34.9	30.1	28.4
87.5°	41.0	22.3	15.7	12.1	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)