

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: P563375

Luminaire Tested: **VHB-36-W-UNV-L950-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563375
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-36-W-UNV-L950-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

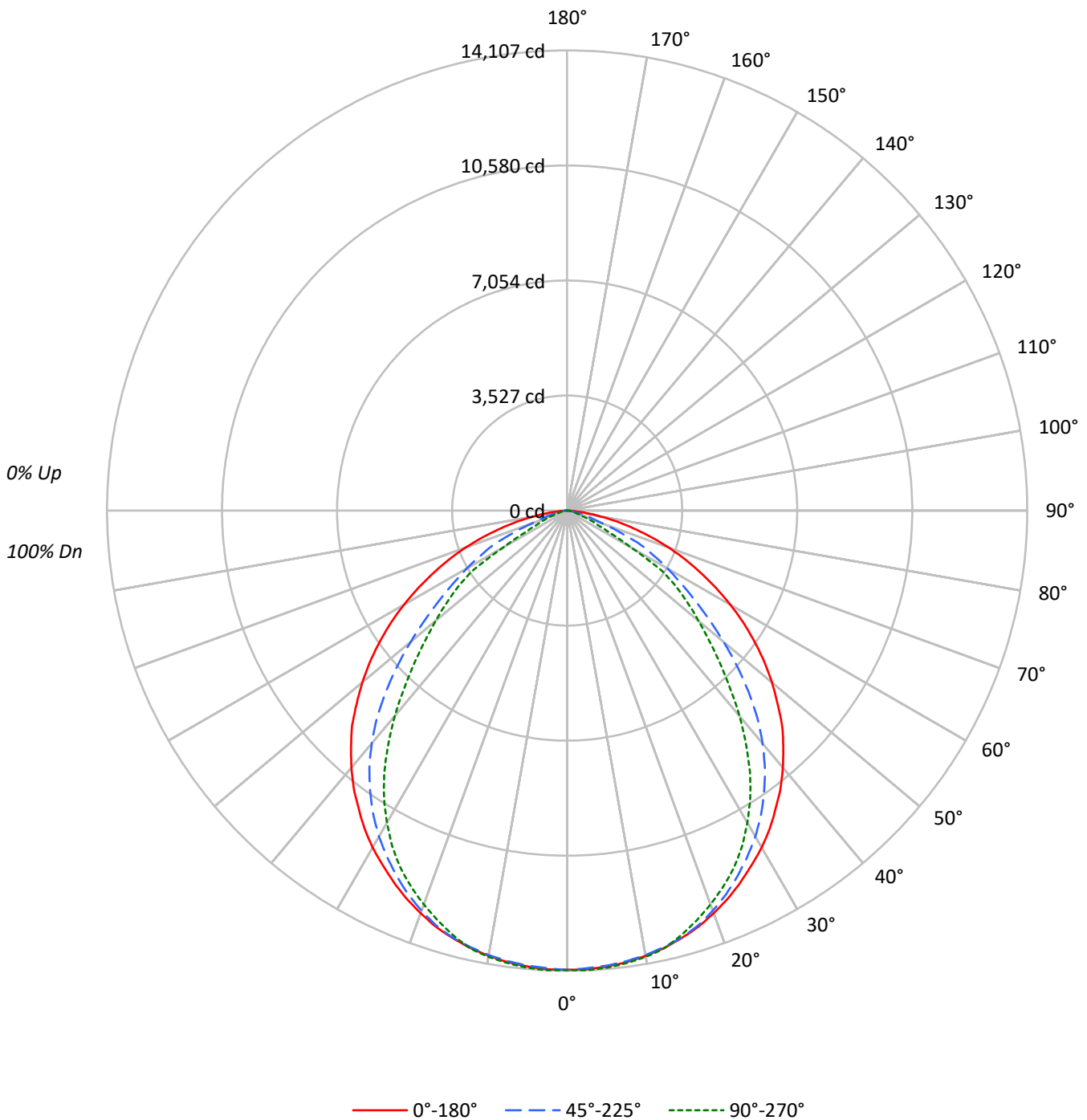
Lumens per Lamp: N/A
Luminaire Lumens: 31672.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 246
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°	54703	54703	54703
5°	54712	54600	54851
10°	54691	54573	54798
15°	54562	54505	54223
20°	54299	53963	53119
25°	53896	52979	51817
30°	53505	51758	49545
35°	52867	49944	46325
40°	52170	47259	41682
45°	51221	43221	36420
50°	49529	37841	31815
55°	47507	32235	27772
60°	44880	27648	17730
65°	41586	23061	9400
70°	37535	13105	6090
75°	31532	8029	3788
80°	23965	4054	3318
85°	14558	3686	2991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1333.1	4.2
10°-20°	3814.1	12.0
20°-30°	5685.6	18.0
30°-40°	6547.9	20.7
40°-50°	6093.8	19.2
50°-60°	4637.0	14.6
60°-70°	2489.0	7.9
70°-80°	915.7	2.9
80°-90°	155.7	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°	10832.9	34.2
0°-40°	17380.8	54.9
0°-60°	28111.5	88.8
0°-90°	31672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14081	14081	14081	14081	14081	
5°	14030	13990	14001	14050	14066	###
15°	13566	13545	13552	13526	13482	3829
25°	12574	12564	12360	12184	12089	5796
35°	11148	11012	10531	10002	9768	6978
45°	9323	8874	7867	6933	6629	7165
55°	7014	6221	4759	4237	4100	6265
65°	4524	3323	2509	1242	1023	4486
75°	2101	1376	535	277	252	2252
85°	327	106	83	71	67	435
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14081.3	14081.3	14081.3	14081.3	14081.3
2.5°	14071.2	14028.4	14042.8	14088.4	14106.9
5°	14029.9	13989.9	14001.3	14049.9	14065.6
7.5°	13961.5	13922.9	13931.5	13977.2	13992.9
10°	13864.4	13824.6	13834.5	13878.6	13891.5
12.5°	13733.2	13696.1	13704.7	13736.2	13750.4
15°	13566.4	13544.9	13552.2	13526.4	13482.2
17.5°	13379.6	13348.2	13339.6	13225.5	13178.4
20°	13134.3	13122.9	13053.0	12911.8	12849.0
22.5°	12876.1	12854.6	12733.4	12563.7	12488.1
25°	12573.7	12563.7	12359.8	12184.3	12088.7
27.5°	12248.6	12224.3	11961.8	11742.3	11612.3
30°	11927.6	11867.7	11538.3	11230.2	11044.9
32.5°	11563.9	11451.2	11057.6	10664.0	10450.1
35°	11147.5	11012.0	10531.3	10002.1	9768.2
37.5°	10743.8	10539.9	9960.8	9299.1	8999.6
40°	10287.4	9995.0	9319.1	8550.3	8219.3
42.5°	9806.7	9450.2	8635.9	7741.6	7402.1
45°	9323.2	8874.1	7867.1	6933.0	6629.1
47.5°	8748.5	8272.2	7068.5	6161.3	5900.3
50°	8195.2	7639.0	6261.2	5442.6	5264.2
52.5°	7616.2	6941.6	5476.8	4834.9	4662.4
55°	7014.3	6221.2	4759.4	4237.4	4100.5
57.5°	6409.4	5481.1	4123.3	3694.0	3448.7
60°	5776.3	4746.5	3558.5	3002.2	2282.0
62.5°	5153.0	3982.0	2995.1	1882.6	1451.9
65°	4524.0	3323.1	2508.8	1242.2	1022.6
67.5°	3923.6	2685.7	1789.9	899.9	765.8
70°	3304.6	2196.4	1153.8	644.7	536.2
72.5°	2684.2	1767.1	791.6	423.7	343.7
75°	2100.8	1376.3	534.9	276.7	252.4
77.5°	1574.5	949.8	298.0	205.3	192.6
80°	1071.2	569.1	181.2	156.9	148.3
82.5°	641.9	272.4	131.3	115.5	111.2
85°	326.6	105.5	82.7	71.2	67.1
87.5°	97.0	52.7	37.0	28.6	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)