

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: P563372

Luminaire Tested: **VHB-36-W-UNV-L850-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563372
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-L850-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

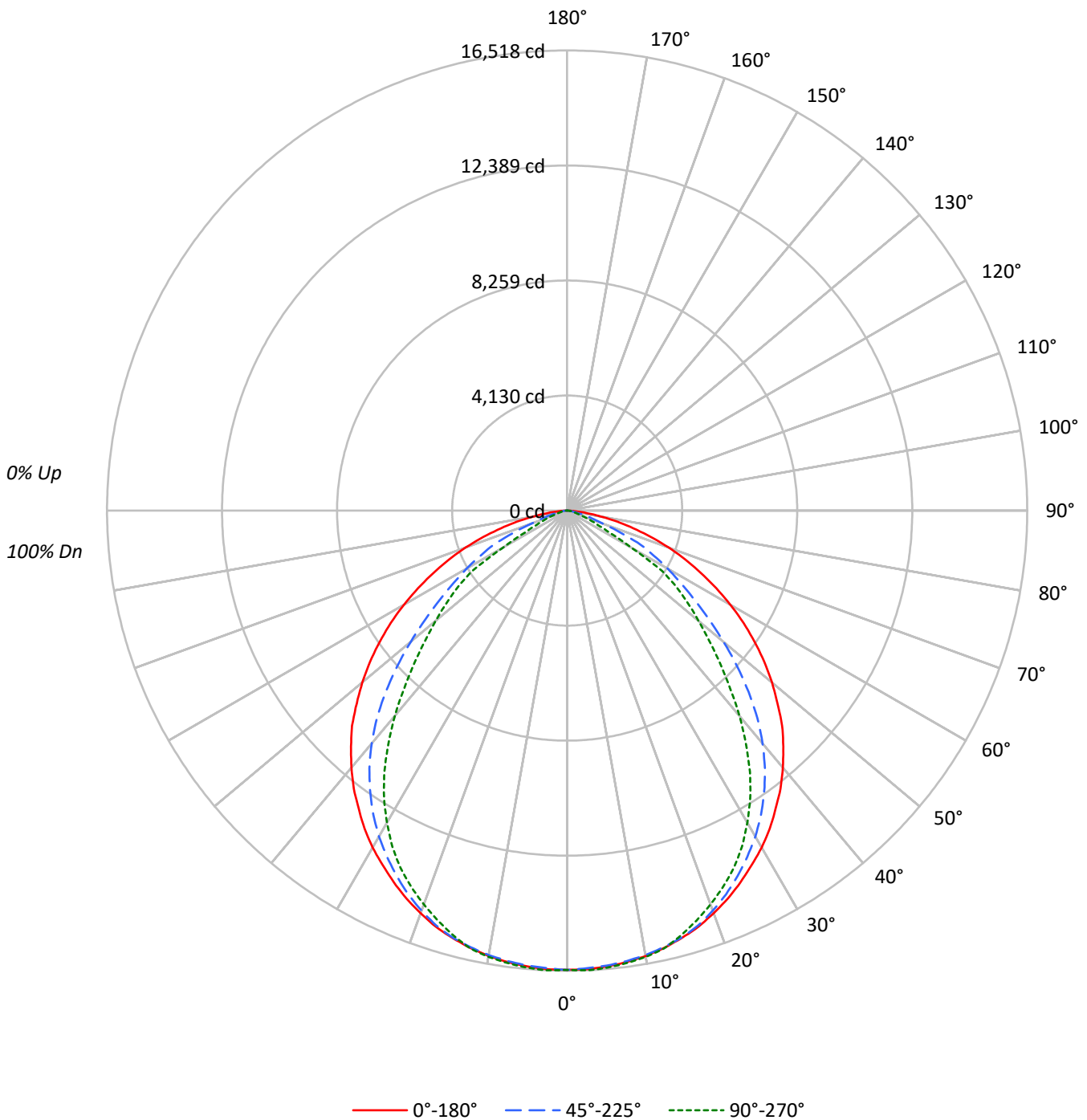
Lumens per Lamp: N/A
Luminaire Lumens: 37086.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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°	64054	64054	64054
5°	64064	63933	64227
10°	64040	63902	64166
15°	63889	63822	63492
20°	63581	63187	62200
25°	63109	62035	60675
30°	62651	60606	58014
35°	61904	58482	54244
40°	61088	55338	48808
45°	59977	50610	42646
50°	57996	44309	37254
55°	55628	37746	32520
60°	52551	32374	20761
65°	48694	27004	11007
70°	43950	15345	7132
75°	36922	9402	4437
80°	28061	4745	3884
85°	17049	4315	3503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1561.0	4.2
10°-20°	4466.1	12.0
20°-30°	6657.5	18.0
30°-40°	7667.2	20.7
40°-50°	7135.5	19.2
50°-60°	5429.6	14.6
60°-70°	2914.5	7.9
70°-80°	1072.3	2.9
80°-90°	182.3	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°	12684.6	34.2
0°-40°	20351.8	54.9
0°-60°	32916.9	88.8
0°-90°	37086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16488	16488	16488	16488	16488	
5°	16428	16381	16395	16452	16470	###
15°	15885	15860	15869	15839	15787	4484
25°	14723	14711	14473	14267	14155	6786
35°	13053	12894	12332	11712	11438	8171
45°	10917	10391	9212	8118	7762	8389
55°	8213	7285	5573	4962	4801	7336
65°	5297	3891	2938	1455	1197	5253
75°	2460	1612	626	324	296	2637
85°	382	124	97	83	79	510
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16488.4	16488.4	16488.4	16488.4	16488.4
2.5°	16476.5	16426.4	16443.3	16496.7	16518.4
5°	16428.2	16381.3	16394.7	16451.6	16470.0
7.5°	16348.0	16302.9	16313.0	16366.4	16384.8
10°	16234.4	16187.8	16199.4	16251.1	16266.2
12.5°	16080.7	16037.4	16047.4	16084.2	16100.9
15°	15885.4	15860.3	15868.8	15838.6	15786.9
17.5°	15666.7	15629.9	15619.9	15486.3	15431.1
20°	15379.5	15366.1	15284.2	15118.9	15045.4
22.5°	15077.1	15052.0	14910.1	14711.3	14622.8
25°	14723.1	14711.3	14472.6	14267.1	14155.2
27.5°	14342.4	14313.9	14006.5	13749.5	13597.4
30°	13966.5	13896.4	13510.6	13149.8	12932.9
32.5°	13540.6	13408.6	12947.8	12486.9	12236.4
35°	13053.1	12894.3	12331.5	11711.9	11438.0
37.5°	12580.4	12341.5	11663.5	10888.7	10538.0
40°	12046.0	11703.6	10912.1	10011.9	9624.4
42.5°	11483.1	11065.6	10112.1	9065.0	8667.4
45°	10916.9	10391.0	9211.9	8118.1	7762.3
47.5°	10243.9	9686.3	8276.8	7214.5	6908.9
50°	9596.1	8944.8	7331.4	6372.9	6164.1
52.5°	8918.1	8128.1	6413.0	5661.4	5459.3
55°	8213.3	7284.6	5573.0	4961.7	4801.4
57.5°	7505.1	6418.0	4828.1	4325.5	4038.2
60°	6763.7	5557.9	4166.8	3515.4	2672.1
62.5°	6033.8	4662.7	3507.1	2204.4	1700.0
65°	5297.3	3891.1	2937.7	1454.6	1197.4
67.5°	4594.3	3144.8	2095.9	1053.7	896.8
70°	3869.4	2571.8	1351.0	754.9	627.9
72.5°	3143.0	2069.1	927.0	496.1	402.4
75°	2459.9	1611.6	626.4	324.0	295.6
77.5°	1843.7	1112.2	349.0	240.4	225.5
80°	1254.3	666.4	212.1	183.7	173.6
82.5°	751.6	319.0	153.7	135.3	130.3
85°	382.5	123.5	96.8	83.4	78.6
87.5°	113.6	61.7	43.4	33.5	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)