

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: P563328

Luminaire Tested: **VHB-12-W-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563328
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-12-W-UNV-L935-CD
Description: 12000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

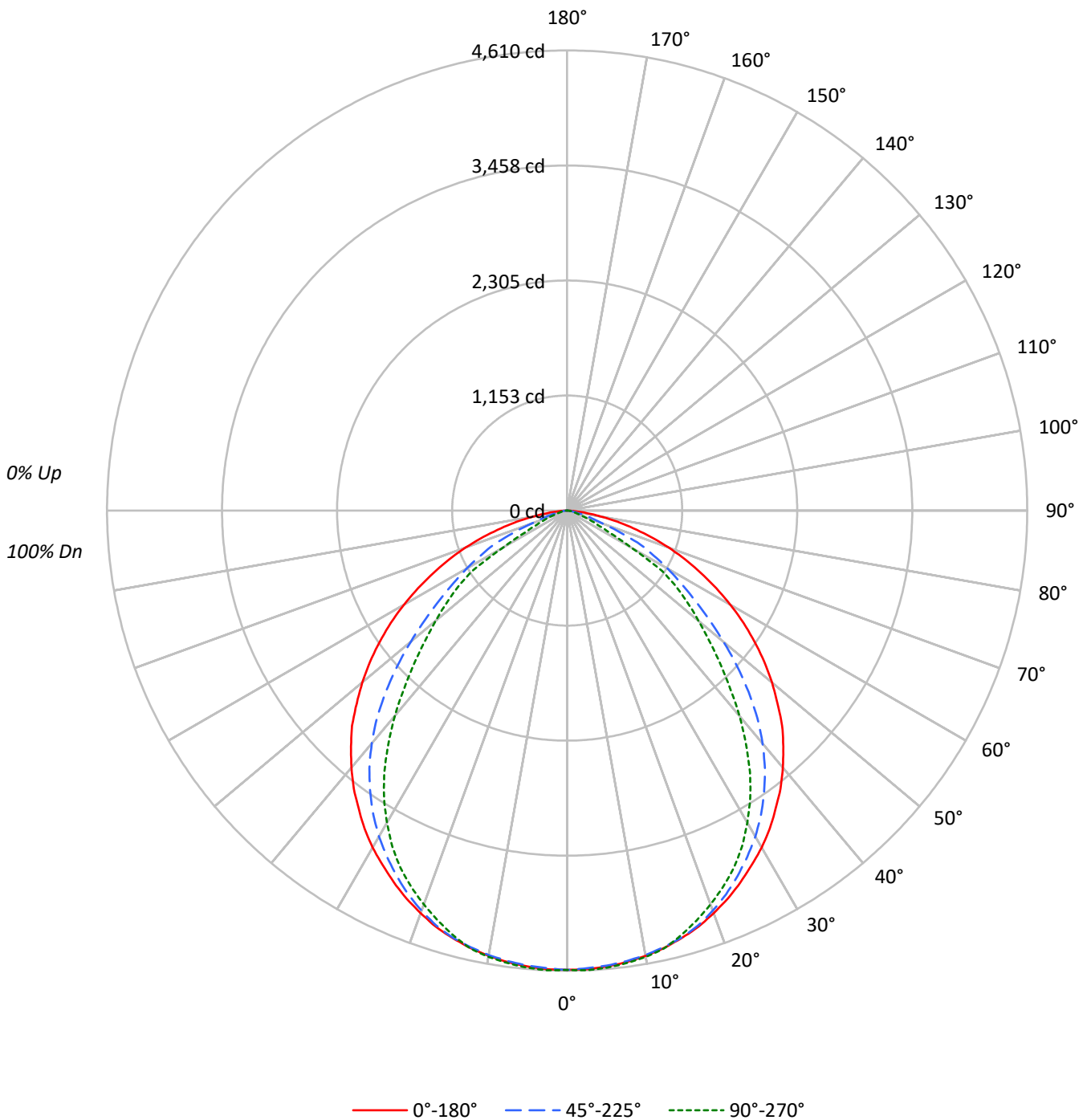
Lumens per Lamp: N/A
Luminaire Lumens: 10350.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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

TEST NUMBER: P563328

CATALOG NUMBER: VHB-12-W-UNV-L935-CD

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°	26814	26814	26814
5°	26819	26764	26887
10°	26809	26751	26861
15°	26745	26717	26579
20°	26616	26451	26038
25°	26419	25969	25399
30°	26227	25371	24286
35°	25914	24482	22708
40°	25573	23166	20432
45°	25108	21186	17852
50°	24278	18549	15595
55°	23287	15801	13614
60°	21999	13553	8691
65°	20385	11304	4608
70°	18399	6425	2985
75°	15456	3936	1857
80°	11745	1987	1628
85°	7134	1805	1464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	4.2
10°-20°	1246.4	12.0
20°-30°	1858.0	18.0
30°-40°	2139.8	20.7
40°-50°	1991.4	19.2
50°-60°	1515.3	14.6
60°-70°	813.4	7.9
70°-80°	299.3	2.9
80°-90°	50.9	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°	3540.0	34.2
0°-40°	5679.8	54.9
0°-60°	9186.5	88.8
0°-90°	10350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4602	4602	4602	4602	4602	
5°	4585	4572	4575	4591	4596	436
15°	4433	4426	4429	4420	4406	1251
25°	4109	4106	4039	3982	3950	1894
35°	3643	3599	3442	3269	3192	2280
45°	3047	2900	2571	2266	2166	2341
55°	2292	2033	1555	1385	1340	2047
65°	1478	1086	820	406	334	1466
75°	686	450	175	90	82	736
85°	107	34	27	23	22	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4601.6	4601.6	4601.6	4601.6	4601.6
2.5°	4598.3	4584.3	4589.0	4603.9	4610.0
5°	4584.8	4571.7	4575.4	4591.3	4596.5
7.5°	4562.4	4549.8	4552.6	4567.6	4572.7
10°	4530.7	4517.7	4520.9	4535.4	4539.6
12.5°	4487.8	4475.7	4478.5	4488.8	4493.4
15°	4433.3	4426.3	4428.7	4420.2	4405.8
17.5°	4372.3	4362.0	4359.2	4321.9	4306.5
20°	4292.1	4288.4	4265.5	4219.4	4198.9
22.5°	4207.7	4200.7	4161.1	4105.6	4081.0
25°	4108.9	4105.6	4039.0	3981.7	3950.4
27.5°	4002.7	3994.7	3909.0	3837.2	3794.8
30°	3897.8	3878.2	3770.6	3669.9	3609.3
32.5°	3778.9	3742.1	3613.5	3484.9	3415.0
35°	3642.9	3598.6	3441.5	3268.6	3192.1
37.5°	3510.9	3444.3	3255.1	3038.8	2940.9
40°	3361.8	3266.2	3045.4	2794.1	2686.0
42.5°	3204.7	3088.2	2822.1	2529.9	2418.9
45°	3046.7	2899.9	2570.9	2265.6	2166.3
47.5°	2858.9	2703.3	2309.9	2013.4	1928.1
50°	2678.1	2496.3	2046.1	1778.6	1720.3
52.5°	2488.9	2268.4	1789.7	1580.0	1523.6
55°	2292.2	2033.0	1555.3	1384.7	1340.0
57.5°	2094.5	1791.2	1347.4	1207.2	1127.0
60°	1887.6	1551.1	1162.9	981.1	745.7
62.5°	1683.9	1301.3	978.8	615.2	474.4
65°	1478.4	1085.9	819.8	406.0	334.2
67.5°	1282.2	877.6	584.9	294.1	250.3
70°	1079.9	717.7	377.1	210.7	175.2
72.5°	877.2	577.5	258.7	138.5	112.3
75°	686.5	449.8	174.8	90.4	82.5
77.5°	514.5	310.4	97.4	67.1	62.9
80°	350.0	186.0	59.2	51.3	48.5
82.5°	209.8	89.0	42.9	37.8	36.4
85°	106.7	34.5	27.0	23.3	21.9
87.5°	31.7	17.2	12.1	9.3	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)