

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: P470145

Luminaire Tested: **VHB2-9-N-UNV-L935-CD-U**

Issue Date: 01/20/2021

Test Information

Test Method: LM-79-08
Report Number: P470145
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB2-9-N-UNV-L935-CD-U
Description: VHB2 LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8050.3 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.75 / 0.88
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

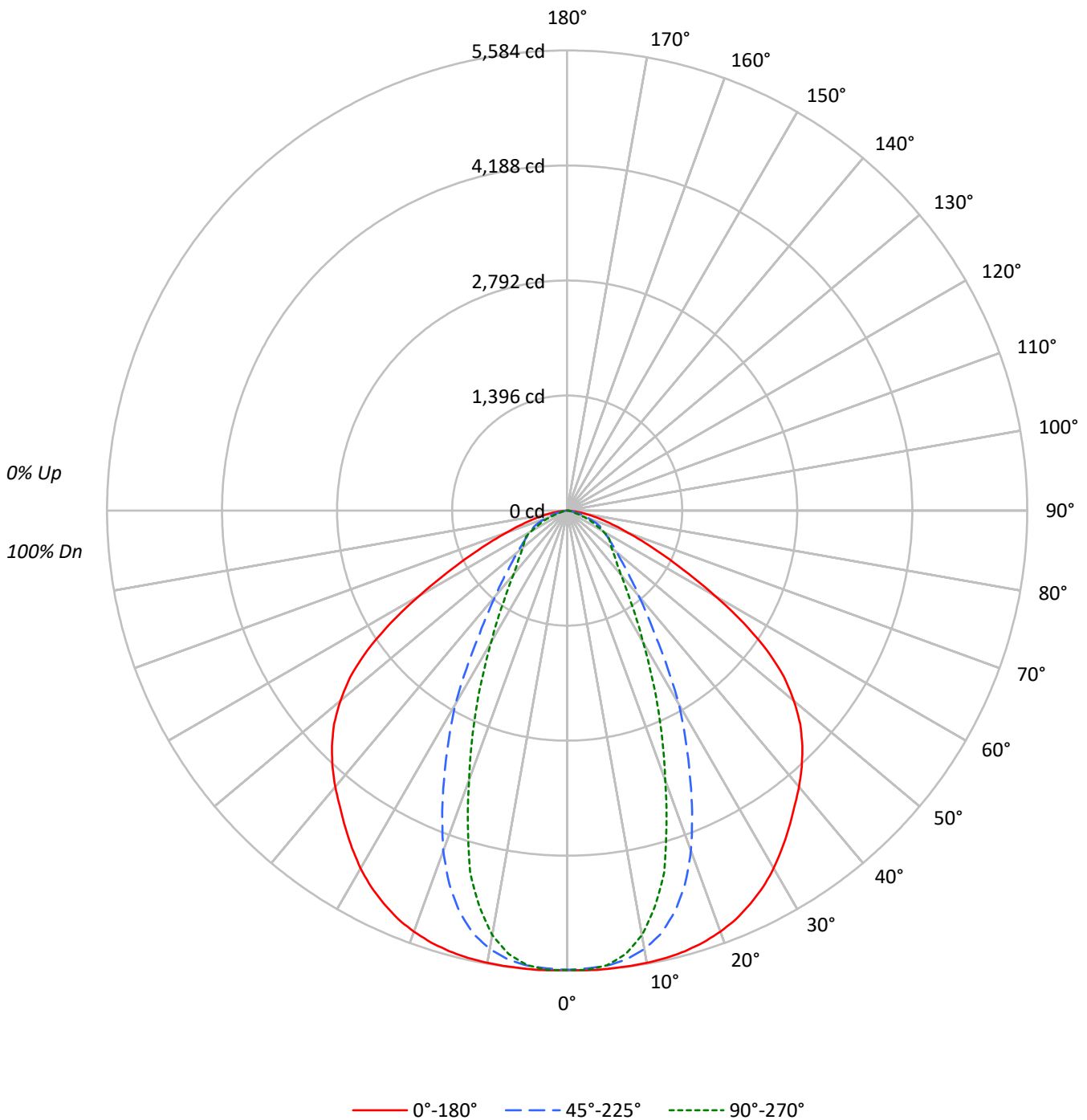
Input Watts (W): 64.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55					55			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42					42			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38					38			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34284	34284	34284
5°	34475	34223	34196
10°	34804	33734	32671
15°	35243	32114	28953
20°	35593	28760	22762
25°	35719	23880	17565
30°	35605	19227	13078
35°	35253	14143	10032
40°	35144	10860	8129
45°	35115	8776	7220
50°	34385	7532	6738
55°	31785	6742	6754
60°	25481	6366	6163
65°	18930	6209	4980
70°	14200	5107	3383
75°	10699	3867	1835
80°	7778	1888	1544
85°	4997	1616	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.2	6.5
10°-20°	1399.4	17.4
20°-30°	1714.3	21.3
30°-40°	1539.6	19.1
40°-50°	1192.8	14.8
50°-60°	892.6	11.1
60°-70°	535.5	6.7
70°-80°	212.4	2.6
80°-90°	38.5	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°	3638.9	45.2
0°-40°	5178.5	64.3
0°-60°	7263.8	90.2
0°-90°	8050.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8050.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5574	5574	5574	5574	5574	
5°	5584	5559	5543	5541	5538	533
15°	5535	5389	5043	4670	4547	1564
25°	5263	4712	3519	2813	2588	2425
35°	4695	3472	1884	1444	1336	2941
45°	4037	1809	1009	850	830	3104
55°	2964	960	629	609	630	2601
65°	1301	533	427	362	342	1332
75°	450	260	163	86	77	496
85°	71	28	23	20	18	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5573.9	5573.9	5573.9	5573.9	5573.9
2.5°	5583.9	5563.5	5560.7	5574.6	5578.6
5°	5583.6	5558.9	5542.8	5541.4	5538.5
7.5°	5578.9	5546.4	5494.5	5453.4	5429.1
10°	5572.5	5515.3	5401.2	5282.8	5231.0
12.5°	5560.3	5466.6	5258.5	5030.7	4921.3
15°	5534.6	5389.4	5043.2	4670.2	4546.8
17.5°	5494.9	5273.5	4753.9	4214.6	4007.5
20°	5437.7	5127.2	4393.8	3736.4	3477.5
22.5°	5364.0	4938.8	3960.0	3225.0	3015.5
25°	5263.1	4712.0	3518.7	2813.4	2588.1
27.5°	5150.5	4457.1	3102.4	2382.1	2185.1
30°	5013.2	4147.0	2707.2	2004.5	1841.4
32.5°	4856.9	3827.6	2272.3	1683.3	1570.3
35°	4694.9	3471.8	1883.6	1443.7	1336.1
37.5°	4528.9	3068.1	1590.4	1238.1	1160.5
40°	4377.0	2617.8	1352.5	1074.3	1012.4
42.5°	4213.9	2195.1	1169.4	943.4	905.5
45°	4036.9	1808.9	1008.9	850.4	830.0
47.5°	3836.9	1526.0	883.7	779.3	760.3
50°	3593.4	1296.0	787.1	705.2	704.2
52.5°	3319.8	1115.4	701.3	651.6	660.9
55°	2964.0	959.9	628.7	609.0	629.8
57.5°	2540.9	832.9	569.3	576.1	592.6
60°	2071.4	718.5	517.5	523.2	501.0
62.5°	1656.2	618.3	470.6	440.6	412.3
65°	1300.7	532.9	426.6	362.3	342.2
67.5°	1014.2	453.8	357.3	297.2	272.2
70°	789.6	385.5	284.0	227.8	188.1
72.5°	603.3	320.8	223.9	139.8	106.2
75°	450.2	260.3	162.7	85.5	77.2
77.5°	326.9	194.9	90.8	62.6	58.3
80°	219.6	131.6	53.3	45.8	43.6
82.5°	139.8	69.0	36.8	32.2	29.7
85°	70.8	28.3	22.9	19.7	17.5
87.5°	24.7	13.6	10.4	8.2	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)