

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: P470130

Luminaire Tested: **VHB2-9-N-UNV-L835-CD-U**

Issue Date: 01/20/2021

Test Information

Test Method: LM-79-08
Report Number: P470130
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-L835-CD-U
Description: VHB2 LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

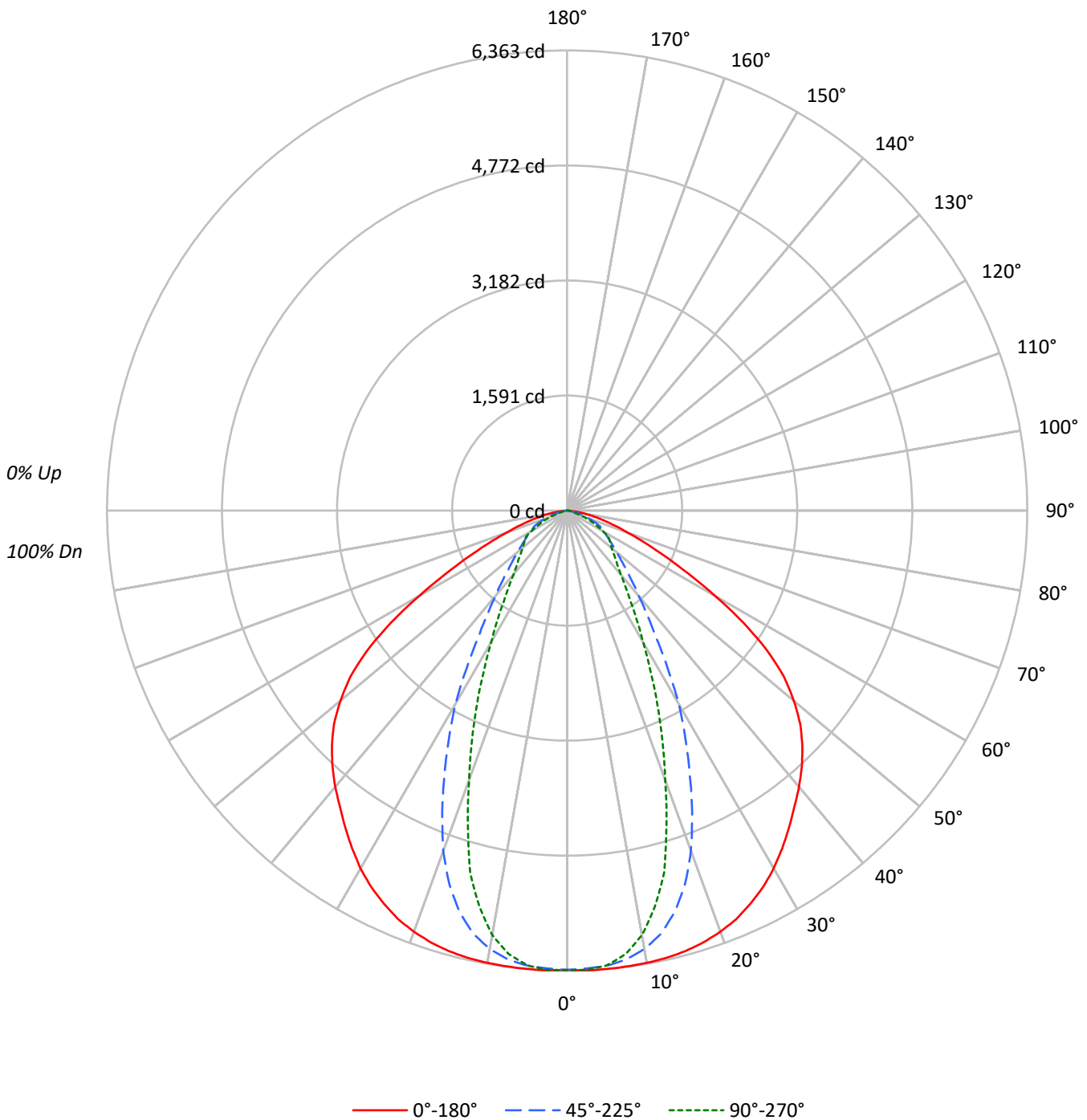
Lumens per Lamp: N/A
Luminaire Lumens: 9173.6 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.75 / 0.88
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	53	48	58	52	48	56	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39068	39068	39068
5°	39285	38998	38968
10°	39660	38441	37230
15°	40160	36595	32993
20°	40559	32772	25939
25°	40703	27212	20016
30°	40573	21911	14903
35°	40172	16117	11432
40°	40048	12376	9263
45°	40014	10000	8228
50°	39183	8583	7678
55°	36220	7682	7696
60°	29037	7254	7023
65°	21572	7076	5676
70°	16182	5820	3856
75°	12194	4406	2091
80°	8862	2150	1760
85°	5695	1842	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.5	6.5
10°-20°	1594.7	17.4
20°-30°	1953.5	21.3
30°-40°	1754.4	19.1
40°-50°	1359.2	14.8
50°-60°	1017.1	11.1
60°-70°	610.3	6.7
70°-80°	242.0	2.6
80°-90°	43.9	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°	4146.7	45.2
0°-40°	5901.1	64.3
0°-60°	8277.4	90.2
0°-90°	9173.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9173.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6352	6352	6352	6352	6352	
5°	6363	6335	6316	6315	6311	607
15°	6307	6141	5747	5322	5181	1782
25°	5998	5370	4010	3206	2949	2763
35°	5350	3956	2146	1645	1522	3351
45°	4600	2061	1150	969	946	3537
55°	3378	1094	716	694	718	2964
65°	1482	607	486	413	390	1518
75°	513	297	185	97	88	566
85°	81	32	26	22	20	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6351.7	6351.7	6351.7	6351.7	6351.7
2.5°	6363.1	6339.9	6336.6	6352.5	6357.0
5°	6362.7	6334.6	6316.2	6314.6	6311.3
7.5°	6357.4	6320.3	6261.2	6214.3	6186.6
10°	6350.0	6284.8	6154.8	6019.9	5960.9
12.5°	6336.2	6229.4	5992.2	5732.6	5607.9
15°	6306.8	6141.4	5746.9	5321.9	5181.3
17.5°	6261.6	6009.4	5417.2	4802.7	4566.7
20°	6196.4	5842.7	5006.8	4257.8	3962.8
22.5°	6112.5	5627.9	4512.5	3675.1	3436.2
25°	5997.5	5369.5	4009.6	3206.0	2949.3
27.5°	5869.2	5079.0	3535.3	2714.5	2490.0
30°	5712.7	4725.7	3085.0	2284.2	2098.3
32.5°	5534.6	4361.7	2589.4	1918.2	1789.4
35°	5350.0	3956.2	2146.4	1645.2	1522.5
37.5°	5160.9	3496.2	1812.3	1410.8	1322.4
40°	4987.7	2983.1	1541.3	1224.2	1153.7
42.5°	4801.9	2501.4	1332.6	1075.0	1031.9
45°	4600.1	2061.3	1149.6	969.1	945.9
47.5°	4372.3	1738.9	1007.0	888.0	866.4
50°	4094.8	1476.9	897.0	803.6	802.4
52.5°	3783.0	1271.1	799.2	742.5	753.1
55°	3377.6	1093.8	716.4	694.0	717.7
57.5°	2895.5	949.1	648.8	656.5	675.3
60°	2360.4	818.7	589.7	596.2	570.9
62.5°	1887.2	704.6	536.3	502.1	469.9
65°	1482.2	607.2	486.2	412.8	390.0
67.5°	1155.7	517.1	407.1	338.7	310.1
70°	899.8	439.3	323.6	259.6	214.4
72.5°	687.5	365.5	255.1	159.3	121.0
75°	513.1	296.7	185.4	97.4	88.0
77.5°	372.5	222.1	103.5	71.3	66.4
80°	250.2	150.0	60.7	52.2	49.7
82.5°	159.3	78.7	42.0	36.7	33.8
85°	80.7	32.2	26.1	22.4	20.0
87.5°	28.1	15.5	11.8	9.4	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)