

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: P563298

Luminaire Tested: **VHB-36-N-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364424)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-36-N-UNV-L835-CD
Description: 36000 LUMEN, VHB LED LUMINAIRE WITH, NARROW LENS AND 80CRI, 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

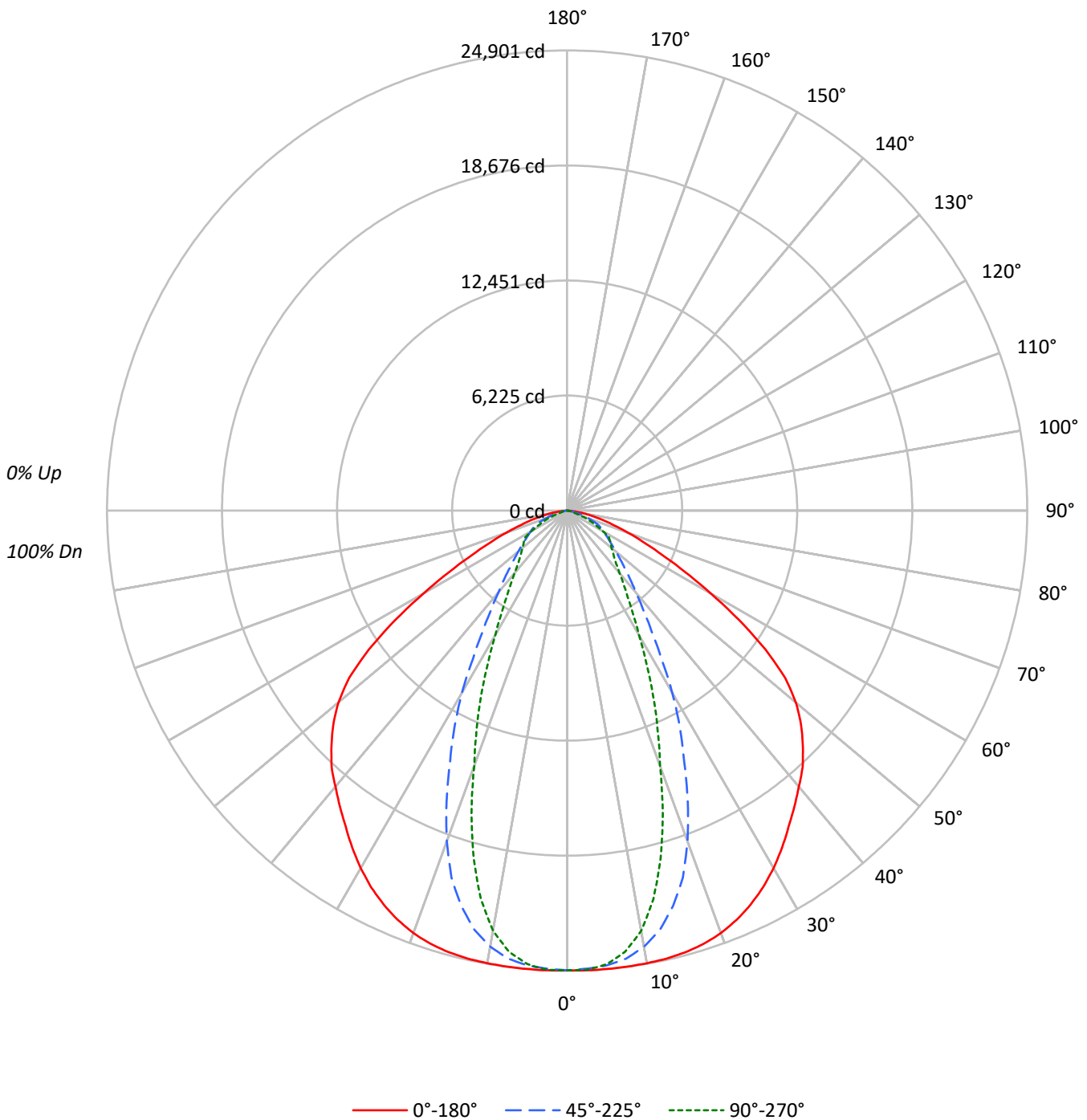
Lumens per Lamp: N/A
Luminaire Lumens: 35084.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.72 / 0.86
Luminous Opening: Rectangular (W 1.75' x L: 1.58' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: VHB-36-N-UNV-L835-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	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	108	104	101	109	105	102	100	101	99	96	97	95	94	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	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42					42			
9	65	53	46	41	63	52	45	41	51	45	41	50	44	40	49	44	40	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	96643	96643	96643
5°	97097	96360	96081
10°	98117	94512	91061
15°	99517	89048	78516
20°	100589	78669	60789
25°	100790	64239	47103
30°	100225	51020	34862
35°	99081	37806	27109
40°	98925	29359	22373
45°	99134	24161	19875
50°	97727	20897	18956
55°	88717	18627	19154
60°	69749	17802	17453
65°	51806	17254	13134
70°	39733	13812	8018
75°	30245	9851	4423
80°	22208	4584	3573
85°	13893	3936	3178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2337.3	6.7
10°-20°	6152.7	17.5
20°-30°	7430.0	21.2
30°-40°	6643.4	18.9
40°-50°	5202.3	14.8
50°-60°	3930.7	11.2
60°-70°	2334.6	6.7
70°-80°	897.2	2.6
80°-90°	155.9	0.4
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°	15920.1	45.4
0°-40°	22563.5	64.3
0°-60°	31696.4	90.3
0°-90°	35084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24877	24877	24877	24877	24877	
5°	24899	24790	24710	24677	24638	###
15°	24744	23928	22141	20290	19522	6991
25°	23514	20748	14987	11816	10989	10826
35°	20892	14867	7972	6216	5716	13101
45°	18044	7688	4398	3715	3618	13889
55°	13099	4171	2750	2739	2828	11503
65°	5636	2342	1877	1565	1429	5807
75°	2015	1126	656	324	295	2206
85°	312	109	88	78	71	415
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24877.2	24877.2	24877.2	24877.2	24877.2
2.5°	24900.7	24818.5	24812.1	24864.9	24872.8
5°	24899.0	24790.4	24709.9	24677.4	24638.3
7.5°	24891.3	24727.0	24455.5	24194.8	24073.9
10°	24872.8	24581.1	23959.1	23366.5	23084.2
12.5°	24832.3	24320.4	23222.1	22133.2	21540.6
15°	24744.0	23928.0	22141.1	20290.2	19522.3
17.5°	24584.0	23386.5	20816.2	18203.9	17215.6
20°	24331.3	22697.9	19029.2	15824.3	14704.3
22.5°	23968.2	21798.3	17060.6	13682.0	12787.0
25°	23513.9	20748.1	14986.6	11815.8	10988.9
27.5°	22974.1	19522.3	13199.4	10078.5	9264.0
30°	22342.7	18090.6	11373.7	8437.1	7771.7
32.5°	21636.8	16582.8	9467.4	7185.3	6637.9
35°	20892.2	14867.2	7971.9	6215.8	5716.2
37.5°	20191.0	13030.4	6751.2	5358.1	5007.4
40°	19507.1	11100.8	5789.3	4680.1	4411.8
42.5°	18861.6	9254.9	5054.1	4112.5	3936.9
45°	18044.2	7688.1	4397.8	3715.3	3617.6
47.5°	17176.9	6488.8	3876.5	3392.5	3358.4
50°	16170.1	5527.2	3457.6	3111.9	3136.5
52.5°	14863.9	4767.0	3060.5	2913.1	2986.2
55°	13098.7	4171.4	2750.2	2739.4	2828.0
57.5°	11030.9	3602.0	2505.2	2573.5	2672.8
60°	8977.2	3144.4	2291.2	2390.4	2246.3
62.5°	7171.5	2724.1	2088.1	1906.4	1782.5
65°	5635.8	2342.3	1877.0	1565.3	1428.8
67.5°	4494.0	1987.1	1579.1	1245.7	1132.4
70°	3498.1	1670.7	1216.0	935.4	705.9
72.5°	2680.7	1396.3	949.2	532.1	401.8
75°	2015.0	1126.2	656.3	324.3	294.7
77.5°	1436.5	836.2	350.5	234.2	217.2
80°	992.7	536.8	204.9	169.1	159.7
82.5°	615.8	259.2	139.7	120.9	113.3
85°	311.7	108.6	88.3	77.5	71.3
87.5°	103.9	52.8	40.2	37.3	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)