

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: P563343

Luminaire Tested: **VHB-18-W-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563343
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-18-W-UNV-L835-CD
Description: 18000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

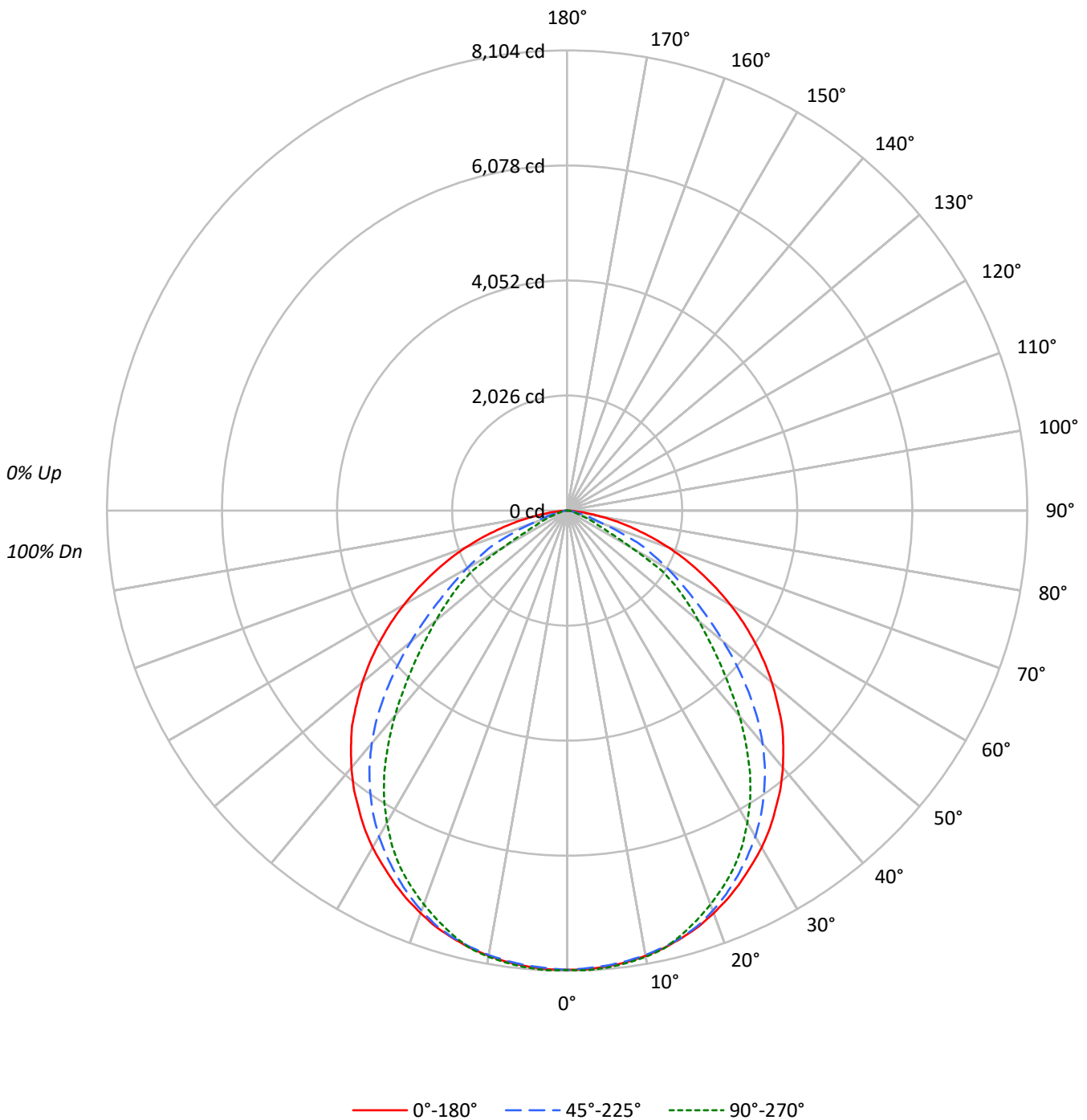
Lumens per Lamp: N/A
Luminaire Lumens: 18194.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 125
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	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	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°	47136	47136	47136
5°	47144	47048	47264
10°	47126	47024	47218
15°	47014	46966	46723
20°	46788	46498	45771
25°	46441	45651	44650
30°	46103	44599	42691
35°	45554	43036	39918
40°	44953	40723	35917
45°	44136	37243	31382
50°	42678	32606	27414
55°	40936	27776	23930
60°	38672	23824	15278
65°	35833	19872	8099
70°	32342	11292	5248
75°	27171	6919	3265
80°	20648	3493	2859
85°	12543	3176	2581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.8	4.2
10°-20°	2191.0	12.0
20°-30°	3266.1	18.0
30°-40°	3761.4	20.7
40°-50°	3500.6	19.2
50°-60°	2663.7	14.6
60°-70°	1429.8	7.9
70°-80°	526.0	2.9
80°-90°	89.5	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°	6222.9	34.2
0°-40°	9984.4	54.9
0°-60°	16148.7	88.8
0°-90°	18194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8089	8089	8089	8089	8089	
5°	8060	8036	8043	8071	8080	766
15°	7793	7781	7785	7770	7745	2200
25°	7223	7217	7100	6999	6944	3329
35°	6404	6326	6050	5746	5611	4009
45°	5356	5098	4519	3983	3808	4116
55°	4029	3574	2734	2434	2356	3599
65°	2599	1909	1441	714	587	2577
75°	1207	791	307	159	145	1294
85°	188	61	48	41	39	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8089.0	8089.0	8089.0	8089.0	8089.0
2.5°	8083.2	8058.6	8066.9	8093.1	8103.7
5°	8059.5	8036.5	8043.1	8071.0	8080.0
7.5°	8020.2	7998.0	8003.0	8029.2	8038.2
10°	7964.4	7941.5	7947.2	7972.6	7980.0
12.5°	7889.0	7867.8	7872.7	7890.7	7898.9
15°	7793.2	7780.9	7785.1	7770.2	7744.9
17.5°	7685.9	7667.9	7662.9	7597.4	7570.4
20°	7545.0	7538.4	7498.3	7417.2	7381.1
22.5°	7396.7	7384.3	7314.7	7217.2	7173.8
25°	7223.0	7217.2	7100.1	6999.3	6944.4
27.5°	7036.2	7022.3	6871.5	6745.4	6670.7
30°	6851.8	6817.4	6628.2	6451.2	6344.7
32.5°	6642.9	6578.1	6352.0	6125.9	6003.1
35°	6403.7	6325.8	6049.7	5745.7	5611.4
37.5°	6171.8	6054.6	5722.0	5341.9	5169.8
40°	5909.6	5741.6	5353.4	4911.7	4721.6
42.5°	5633.5	5428.7	4960.9	4447.2	4252.1
45°	5355.7	5097.7	4519.3	3982.6	3808.1
47.5°	5025.6	4752.0	4060.5	3539.4	3389.4
50°	4707.7	4388.2	3596.7	3126.5	3024.0
52.5°	4375.1	3987.6	3146.2	2777.4	2678.3
55°	4029.4	3573.8	2734.0	2434.2	2355.5
57.5°	3681.9	3148.6	2368.6	2122.0	1981.1
60°	3318.2	2726.6	2044.2	1724.6	1310.9
62.5°	2960.1	2287.4	1720.5	1081.5	834.0
65°	2598.8	1908.9	1441.2	713.6	587.4
67.5°	2253.9	1542.8	1028.2	517.0	439.9
70°	1898.3	1261.7	662.8	370.3	308.0
72.5°	1541.9	1015.1	454.8	243.4	197.4
75°	1206.8	790.6	307.3	159.0	145.0
77.5°	904.5	545.6	171.2	117.9	110.6
80°	615.3	326.9	104.1	90.1	85.2
82.5°	368.7	156.5	75.4	66.4	63.9
85°	187.6	60.6	47.5	40.9	38.6
87.5°	55.7	30.3	21.3	16.4	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)