

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: P563388

Luminaire Tested: **VHB-9-W-UNV-L835-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563388
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-9-W-UNV-L835-CD
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 80CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

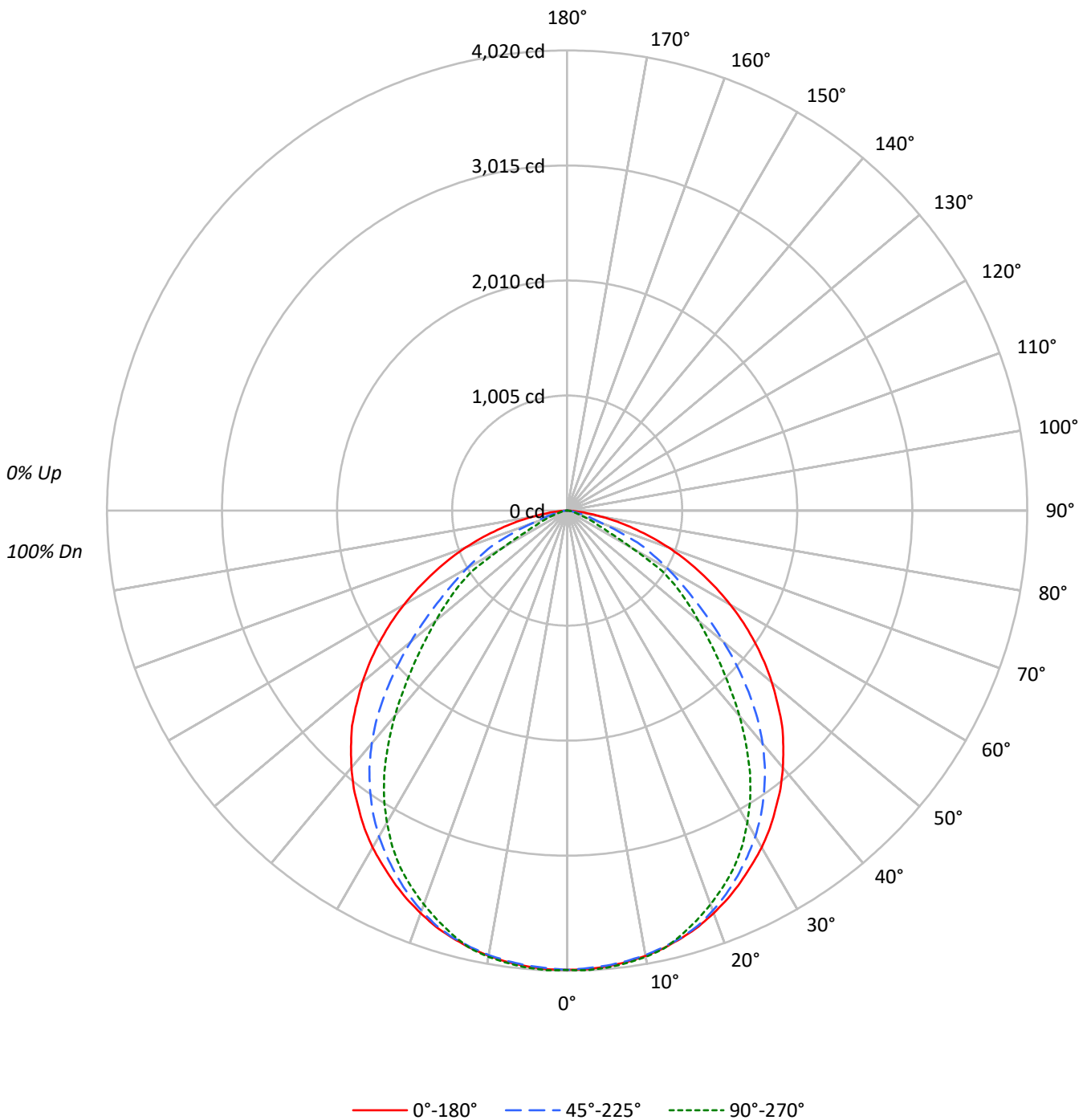
Lumens per Lamp: N/A
Luminaire Lumens: 9025.0 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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: P563388

CATALOG NUMBER: VHB-9-W-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	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°	23382	23382	23382
5°	23385	23338	23445
10°	23377	23326	23422
15°	23321	23297	23177
20°	23208	23065	22704
25°	23037	22645	22148
30°	22869	22123	21177
35°	22597	21347	19801
40°	22299	20200	17816
45°	21894	18474	15567
50°	21170	16174	13599
55°	20306	13778	11870
60°	19183	11818	7579
65°	17774	9857	4018
70°	16043	5602	2603
75°	13477	3431	1619
80°	10242	1732	1419
85°	6225	1578	1277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	4.2
10°-20°	1086.8	12.0
20°-30°	1620.1	18.0
30°-40°	1865.8	20.7
40°-50°	1736.4	19.2
50°-60°	1321.3	14.6
60°-70°	709.3	7.9
70°-80°	260.9	2.9
80°-90°	44.4	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°	3086.8	34.2
0°-40°	4952.7	54.9
0°-60°	8010.4	88.8
0°-90°	9025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4012	4012	4012	4012	4012	
5°	3998	3986	3990	4004	4008	380
15°	3866	3860	3862	3854	3842	1091
25°	3583	3580	3522	3472	3445	1652
35°	3176	3138	3001	2850	2784	1989
45°	2657	2529	2242	1976	1889	2042
55°	1999	1773	1356	1207	1168	1785
65°	1289	947	715	354	291	1278
75°	599	392	152	79	72	642
85°	93	30	24	20	19	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4012.5	4012.5	4012.5	4012.5	4012.5
2.5°	4009.6	3997.4	4001.5	4014.5	4019.8
5°	3997.8	3986.4	3989.7	4003.5	4008.0
7.5°	3978.3	3967.4	3969.8	3982.8	3987.3
10°	3950.7	3939.3	3942.2	3954.7	3958.4
12.5°	3913.3	3902.7	3905.2	3914.1	3918.2
15°	3865.8	3859.6	3861.7	3854.4	3841.8
17.5°	3812.5	3803.6	3801.1	3768.6	3755.2
20°	3742.6	3739.4	3719.5	3679.2	3661.3
22.5°	3669.1	3662.9	3628.4	3580.0	3558.5
25°	3582.9	3580.0	3522.0	3471.9	3444.7
27.5°	3490.3	3483.3	3408.5	3346.0	3309.0
30°	3398.8	3381.7	3287.9	3200.1	3147.3
32.5°	3295.2	3263.0	3150.9	3038.7	2977.8
35°	3176.5	3137.9	3000.9	2850.1	2783.5
37.5°	3061.5	3003.4	2838.4	2649.8	2564.4
40°	2931.4	2848.1	2655.5	2436.4	2342.1
42.5°	2794.5	2692.8	2460.8	2206.0	2109.2
45°	2656.7	2528.7	2241.7	1975.6	1889.0
47.5°	2492.9	2357.2	2014.2	1755.7	1681.3
50°	2335.2	2176.7	1784.1	1550.9	1500.1
52.5°	2170.2	1978.0	1560.6	1377.7	1328.5
55°	1998.7	1772.7	1356.2	1207.4	1168.4
57.5°	1826.4	1561.9	1174.9	1052.6	982.7
60°	1646.0	1352.5	1014.0	855.5	650.3
62.5°	1468.4	1134.7	853.5	536.5	413.7
65°	1289.1	946.9	714.9	354.0	291.4
67.5°	1118.0	765.3	510.0	256.4	218.2
70°	941.6	625.9	328.8	183.7	152.8
72.5°	764.9	503.5	225.6	120.7	97.9
75°	598.6	392.2	152.4	78.9	71.9
77.5°	448.7	270.7	84.9	58.5	54.9
80°	305.2	162.2	51.6	44.7	42.3
82.5°	182.9	77.6	37.4	32.9	31.7
85°	93.1	30.1	23.6	20.3	19.1
87.5°	27.6	15.0	10.6	8.1	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)