

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: P563337

Luminaire Tested: **VHB-15-W-UNV-L935-CD**

Issue Date: 6/3/2022



Test Information

Test Method: LM-79-08
Report Number: P563337
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-15-W-UNV-L935-CD
Description: 15000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 90CRI, 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Summary

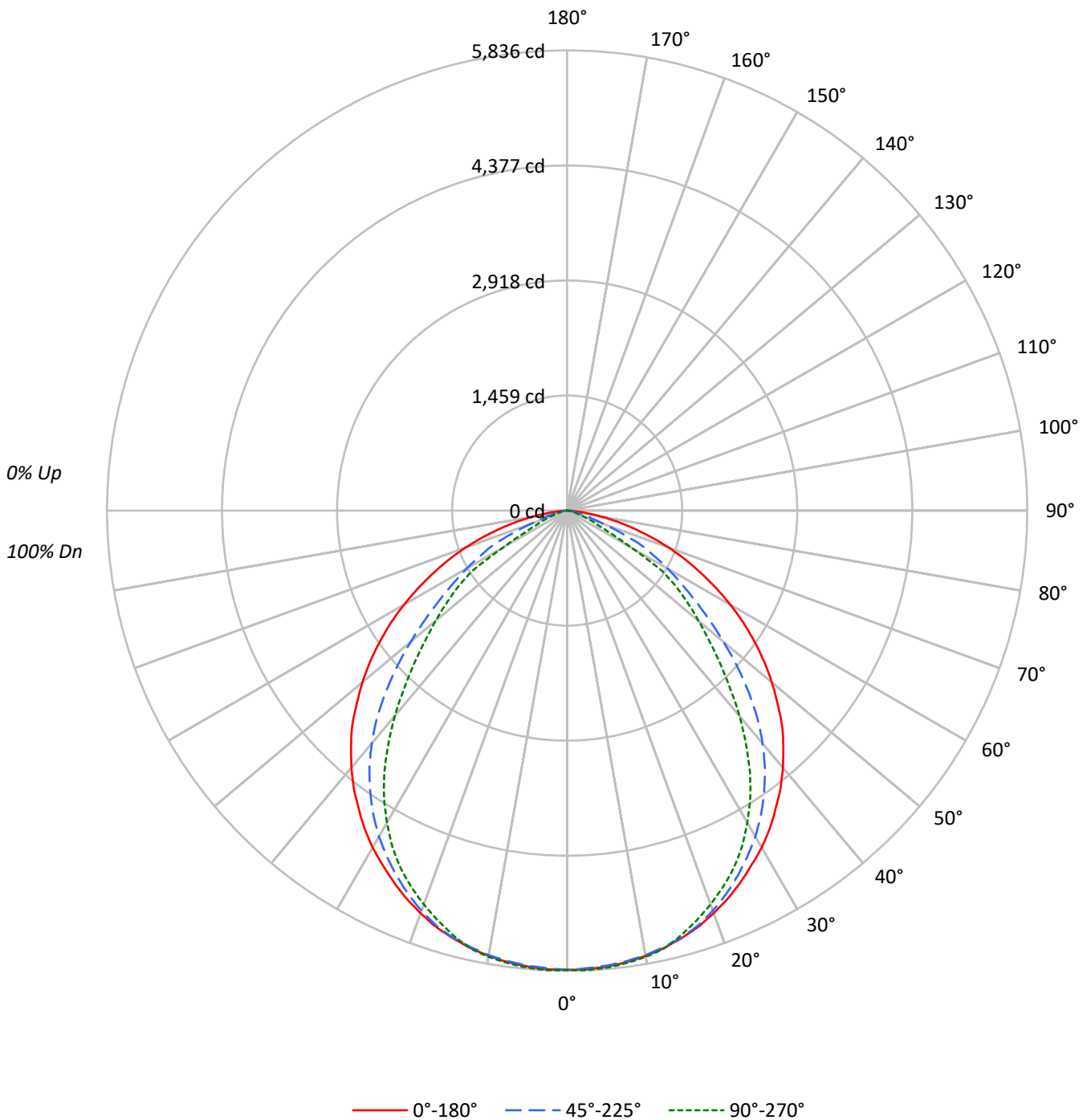
Lumens per Lamp: N/A
Luminaire Lumens: 13102.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 104
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: P563337

CATALOG NUMBER: VHB-15-W-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P563337

CATALOG NUMBER: VHB-15-W-UNV-L935-CD

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°	33944	33944	33944
5°	33950	33880	34036
10°	33937	33863	34003
15°	33856	33821	33646
20°	33693	33484	32961
25°	33444	32874	32153
30°	33201	32117	30743
35°	32805	30991	28746
40°	32372	29325	25865
45°	31783	26819	22599
50°	30734	23481	19742
55°	29480	20003	17233
60°	27848	17156	11002
65°	25805	14309	5832
70°	23290	8132	3779
75°	19567	4982	2351
80°	14869	2513	2057
85°	9033	2287	1859



TEST NUMBER: P563337

CATALOG NUMBER: VHB-15-W-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	4.2
10°-20°	1577.8	12.0
20°-30°	2352.0	18.0
30°-40°	2708.7	20.7
40°-50°	2520.9	19.2
50°-60°	1918.2	14.6
60°-70°	1029.7	7.9
70°-80°	378.8	2.9
80°-90°	64.4	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°	4481.3	34.2
0°-40°	7190.0	54.9
0°-60°	11629.1	88.8
0°-90°	13102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5825	5825	5825	5825	5825	
5°	5804	5787	5792	5812	5819	552
15°	5612	5603	5606	5596	5577	1584
25°	5202	5197	5113	5040	5001	2398
35°	4612	4555	4356	4138	4041	2887
45°	3857	3671	3254	2868	2742	2964
55°	2902	2574	1969	1753	1696	2592
65°	1872	1375	1038	514	423	1856
75°	869	569	221	114	104	932
85°	135	44	34	30	28	180
90°	0	0	0	0	0	



TEST NUMBER: P563337

CATALOG NUMBER: VHB-15-W-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5825.1	5825.1	5825.1	5825.1	5825.1
2.5°	5820.9	5803.2	5809.2	5828.1	5835.7
5°	5803.9	5787.3	5792.0	5812.1	5818.6
7.5°	5775.5	5759.6	5763.2	5782.0	5788.5
10°	5735.4	5718.9	5723.0	5741.3	5746.6
12.5°	5681.1	5665.8	5669.3	5682.3	5688.2
15°	5612.1	5603.2	5606.2	5595.6	5577.3
17.5°	5534.8	5521.8	5518.3	5471.1	5451.6
20°	5433.4	5428.6	5399.7	5341.3	5315.3
22.5°	5326.5	5317.7	5267.5	5197.3	5166.1
25°	5201.5	5197.3	5113.0	5040.4	5000.8
27.5°	5067.0	5056.9	4948.3	4857.5	4803.8
30°	4934.2	4909.4	4773.1	4645.7	4569.0
32.5°	4783.7	4737.1	4574.3	4411.5	4323.0
35°	4611.5	4555.4	4356.5	4137.7	4040.9
37.5°	4444.5	4360.1	4120.6	3846.8	3722.9
40°	4255.7	4134.7	3855.1	3537.1	3400.2
42.5°	4056.8	3909.3	3572.5	3202.5	3062.1
45°	3856.8	3671.0	3254.4	2868.0	2742.3
47.5°	3619.0	3422.0	2924.1	2548.8	2440.8
50°	3390.2	3160.1	2590.1	2251.5	2177.7
52.5°	3150.6	2871.6	2265.6	2000.1	1928.7
55°	2901.7	2573.6	1968.9	1752.9	1696.3
57.5°	2651.4	2267.4	1705.7	1528.1	1426.7
60°	2389.5	1963.5	1472.1	1242.0	944.0
62.5°	2131.7	1647.3	1239.0	778.8	600.6
65°	1871.5	1374.7	1037.8	513.9	423.0
67.5°	1623.1	1111.0	740.4	372.3	316.8
70°	1367.0	908.6	477.3	266.7	221.8
72.5°	1110.4	731.0	327.5	175.3	142.2
75°	869.1	569.3	221.3	114.5	104.4
77.5°	651.3	392.9	123.3	84.9	79.7
80°	443.1	235.4	74.9	64.9	61.3
82.5°	265.5	112.7	54.3	47.8	46.0
85°	135.1	43.6	34.2	29.5	27.8
87.5°	40.1	21.8	15.3	11.8	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)