

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPX-L30-740-T3-XXX-CGL-EM10WC-DIM-UNV\_EM MODE ONLY.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL009827  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2024-05-24  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] VWPX-L30-740-T3-XXX-CGL-EM10WC-DIM-UNV  
[LUMINAIRE] CAST ALUMINUM LED WALL PACK  
[MORE] WITH TYPE III DISTRIBUTION AND CLEAR  
[MORE] GLASS LENS  
[LAMPCAT] X8-LUXEON M  
[LAMP] 8 WHITE LEDS  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor  
[\_SEARCH\_MOUNTING] Wall

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.86
Spacing Criterion (90-270)	1.70
Spacing Criterion (Diagonal)	1.64
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.35 ft
Luminous Width (90-270)	1.10 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13214	18903	14434
55	9847	23584	18988
65	6112	19081	27389
75	2299	12026	34261
85	683	2800	3004

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## CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603
2.5	340.207	341.289	343.020	341.722	341.506	339.774	338.043	335.662	335.229	332.416
5.0	349.729	351.028	352.543	351.677	351.461	350.162	348.431	346.483	345.834	341.073
7.5	357.304	358.602	359.468	358.819	358.386	358.819	357.953	357.088	357.088	351.677
10.0	370.505	371.587	372.020	370.938	369.640	369.423	367.908	367.043	368.341	362.714
12.5	384.572	385.222	385.222	385.222	385.005	385.005	381.543	378.080	378.946	372.886
15.0	387.386	388.035	388.252	390.416	394.095	398.423	396.692	391.281	388.901	381.110
17.5	388.901	388.684	388.901	389.766	394.095	402.751	406.863	404.266	397.774	387.819
20.0	408.162	408.162	408.162	402.968	399.289	401.886	409.460	413.572	406.214	393.662
22.5	447.117	444.953	443.005	430.020	416.169	406.431	406.863	417.251	412.923	399.938
25.0	483.258	481.094	477.848	458.154	436.729	417.901	406.431	415.304	418.117	404.050
27.5	506.631	505.549	502.736	479.147	453.177	431.751	412.274	412.274	421.147	407.296
30.0	523.296	521.564	517.669	492.781	465.296	443.871	421.796	413.139	423.095	409.677
32.5	530.221	528.057	522.646	501.005	476.766	455.124	432.184	417.901	423.527	411.625
35.0	530.654	528.706	523.728	505.117	486.288	467.027	442.572	423.744	424.826	415.520
37.5	523.079	522.646	517.885	505.117	496.460	479.363	452.527	425.908	426.557	419.199
40.0	492.781	489.751	486.505	490.833	500.139	493.214	462.699	426.990	428.505	425.908
42.5	420.930	417.035	415.087	439.759	490.833	508.146	474.818	428.938	428.721	435.647
45.0	339.774	335.662	335.013	359.685	449.930	516.154	486.072	432.184	429.587	444.953
47.5	284.588	281.991	281.991	301.468	368.990	510.960	497.758	435.863	430.236	454.475
50.0	253.424	251.260	251.260	269.222	323.543	485.423	510.960	439.326	432.401	462.266
52.5	227.454	225.506	225.939	243.469	306.013	418.983	513.124	448.632	440.841	470.057
55.0	205.379	204.081	205.596	222.260	293.677	387.602	491.915	468.109	448.848	479.579
57.5	190.880	190.447	191.096	206.894	282.207	368.990	439.759	489.102	458.587	481.094
60.0	171.402	170.536	169.671	184.387	263.812	343.237	391.931	497.758	459.669	476.982
62.5	138.074	136.992	136.126	150.842	229.835	307.528	345.185	484.124	449.930	472.005
65.0	93.925	93.276	92.410	110.589	185.253	261.648	293.245	449.714	444.087	478.714
67.5	50.858	51.074	53.022	67.955	137.208	214.902	247.148	388.035	449.497	486.072
70.0	36.791	37.007	37.873	51.074	101.716	167.507	202.782	329.170	464.214	489.751
72.5	28.134	28.134	29.216	38.955	78.343	125.955	157.551	272.252	454.908	462.915
75.0	21.642	21.425	22.075	29.000	59.082	87.216	113.186	202.566	405.348	392.147
77.5	15.149	14.933	15.582	19.694	41.985	57.567	75.962	131.149	322.894	280.260
80.0	9.090	8.873	9.306	11.687	26.403	36.574	44.149	87.216	165.126	131.149
82.5	4.761	4.545	4.761	5.627	13.418	20.127	20.992	57.134	59.515	48.045
85.0	2.164	1.948	2.164	2.597	5.410	9.090	8.873	25.321	18.612	18.612
87.5	0.649	0.649	0.649	0.866	1.515	2.164	2.813	5.627	4.978	5.627
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.  
Angles

Horizontal Angles

	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603	329.603
2.5	330.252	328.953	328.088	326.356	325.491	322.677	321.162	320.297	319.647	318.349
5.0	337.177	334.580	332.416	327.655	323.543	316.185	311.207	306.879	303.633	300.819
7.5	346.700	343.020	339.341	331.118	323.543	312.722	304.282	297.357	291.730	288.051
10.0	356.222	351.677	346.700	335.013	324.409	311.424	300.819	292.595	285.670	281.125
12.5	364.229	358.386	352.543	337.826	325.274	310.774	300.386	290.215	280.043	270.954
15.0	370.722	363.796	355.789	338.692	323.976	310.342	299.304	283.506	266.842	251.909
17.5	375.699	367.259	357.304	337.177	321.162	308.177	292.812	269.006	243.902	217.932
20.0	379.162	369.207	357.304	333.931	317.483	303.200	280.043	244.551	200.618	154.954
22.5	382.192	370.722	357.737	331.334	314.670	294.110	260.349	202.999	138.290	110.373
25.0	385.871	372.886	358.170	330.035	310.991	281.342	229.402	143.917	111.238	107.559
27.5	388.035	374.184	358.386	329.386	306.879	264.461	186.335	117.081	112.537	117.947
30.0	389.334	374.617	356.871	327.655	300.819	242.170	141.104	115.134	122.492	130.066

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## CANDELA TABULATION - (Cont.)

32.5	389.983	373.535	354.058	324.625	292.379	213.387	124.223	121.193	132.231	138.723
35.0	389.117	370.938	349.946	321.379	281.775	183.521	124.007	126.171	134.611	134.611
37.5	389.550	368.774	345.834	316.618	267.924	153.439	122.708	125.738	127.037	127.902
40.0	391.714	368.558	343.237	310.558	249.312	128.984	117.514	117.947	119.462	129.417
42.5	395.393	369.207	341.289	302.767	228.320	110.373	105.179	111.238	125.305	155.820
45.0	401.020	371.155	340.640	295.625	202.999	93.925	92.194	105.179	148.029	171.186
47.5	408.595	376.132	343.237	290.215	180.275	77.477	79.425	122.925	157.335	176.596
50.0	418.117	381.759	346.267	286.103	162.962	64.492	72.067	131.798	140.238	130.499
52.5	425.042	386.520	349.513	285.021	155.171	56.701	74.447	98.253	74.015	67.522
55.0	437.811	396.043	357.088	287.185	151.492	51.074	57.783	56.485	49.776	47.828
57.5	454.259	407.296	362.282	284.804	142.619	47.395	43.716	44.149	43.067	40.686
60.0	457.288	413.572	368.558	279.394	131.149	43.716	38.306	38.089	38.522	37.440
62.5	463.348	413.572	366.177	264.245	120.761	39.821	34.843	32.895	34.410	33.112
65.0	477.632	420.930	365.528	251.476	108.641	35.709	30.515	28.134	26.186	27.701
67.5	499.057	434.565	376.565	255.588	98.037	32.030	24.022	19.261	16.231	14.716
70.0	508.363	438.244	379.162	263.163	88.082	27.269	16.231	9.090	4.112	0.866
72.5	477.199	407.296	350.595	248.446	76.395	20.343	8.224	1.731	0.649	0.649
75.0	379.595	322.461	275.931	209.924	54.753	11.903	1.515	0.649	0.433	0.433
77.5	217.282	183.521	154.305	147.163	26.619	3.463	0.433	0.433	0.216	0.216
80.0	80.074	67.089	51.074	60.597	8.657	0.649	0.216	0.216	0.216	0.216
82.5	29.000	23.589	18.828	16.231	2.381	0.216	0.216	0.216	0.216	0.000
85.0	11.037	9.522	7.791	4.545	0.433	0.216	0.216	0.216	0.216	0.216
87.5	3.246	3.030	2.597	0.649	0.216	0.216	0.216	0.216	0.216	0.216
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	329.603	329.603
2.5	319.864	319.431
5.0	301.685	301.685
7.5	287.834	289.782
10.0	280.043	282.424
12.5	267.491	270.304
15.0	245.417	245.417
17.5	205.379	202.133
20.0	136.775	132.231
22.5	105.179	105.395
25.0	108.208	108.208
27.5	120.111	120.111
30.0	132.447	132.447
32.5	140.022	140.022
35.0	134.178	133.746
37.5	128.552	128.335
40.0	143.701	143.268
42.5	167.074	166.857
45.0	180.275	180.059
47.5	181.790	183.305
50.0	119.462	123.358
52.5	66.656	68.604
55.0	46.962	47.612
57.5	39.604	39.604
60.0	36.791	36.574
62.5	34.843	35.060
65.0	32.679	33.545
67.5	9.522	6.493

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<b>70.0</b>	0.649	0.649
<b>72.5</b>	0.649	0.649
<b>75.0</b>	0.433	0.433
<b>77.5</b>	0.216	0.000
<b>80.0</b>	0.000	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.216
<b>87.5</b>	0.216	0.000
<b>90.0</b>	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : VWPX-L30-740-T3-XXX-CGL-EM10WC-DIM-UNV\_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	127.83	N.A.	10.00
0-30	277.90	N.A.	21.60
0-40	481.88	N.A.	37.50
0-60	944.67	N.A.	73.60
0-80	1271.91	N.A.	99.10
0-90	1284.01	N.A.	100.00
10-90	1252.28	N.A.	97.50
20-40	354.05	N.A.	27.60
20-50	588.76	N.A.	45.90
40-70	666.19	N.A.	51.90
60-80	327.24	N.A.	25.50
70-80	123.84	N.A.	9.60
80-90	12.10	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1284.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	31.73
10-20	96.09
20-30	150.08
30-40	203.97
40-50	234.71
50-60	228.08
60-70	203.40
70-80	123.84
80-90	12.10
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55
4	80	67	58	50	77	66	57	50	63	55	49	61	54	49	58	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	43	34	28	41	33	28	40	33	28	39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	27	22	34	27	22	33	27	22	20

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.0	22.7	21.4	23.0	23.4	24.3	26.1	24.7	26.4	26.7
	3H	21.2	22.8	21.6	23.1	23.5	28.4	29.9	28.7	30.3	30.6
	4H	21.3	22.8	21.7	23.1	23.5	29.9	31.4	30.3	31.8	32.1
	6H	21.3	22.7	21.7	23.0	23.4	30.3	31.7	30.7	32.1	32.5
	8H	21.3	22.6	21.7	23.0	23.4	30.3	31.7	30.8	32.0	32.4
	12H	21.2	22.5	21.7	22.9	23.3	30.3	31.6	30.7	32.0	32.4

### UGR Viewed Endwise

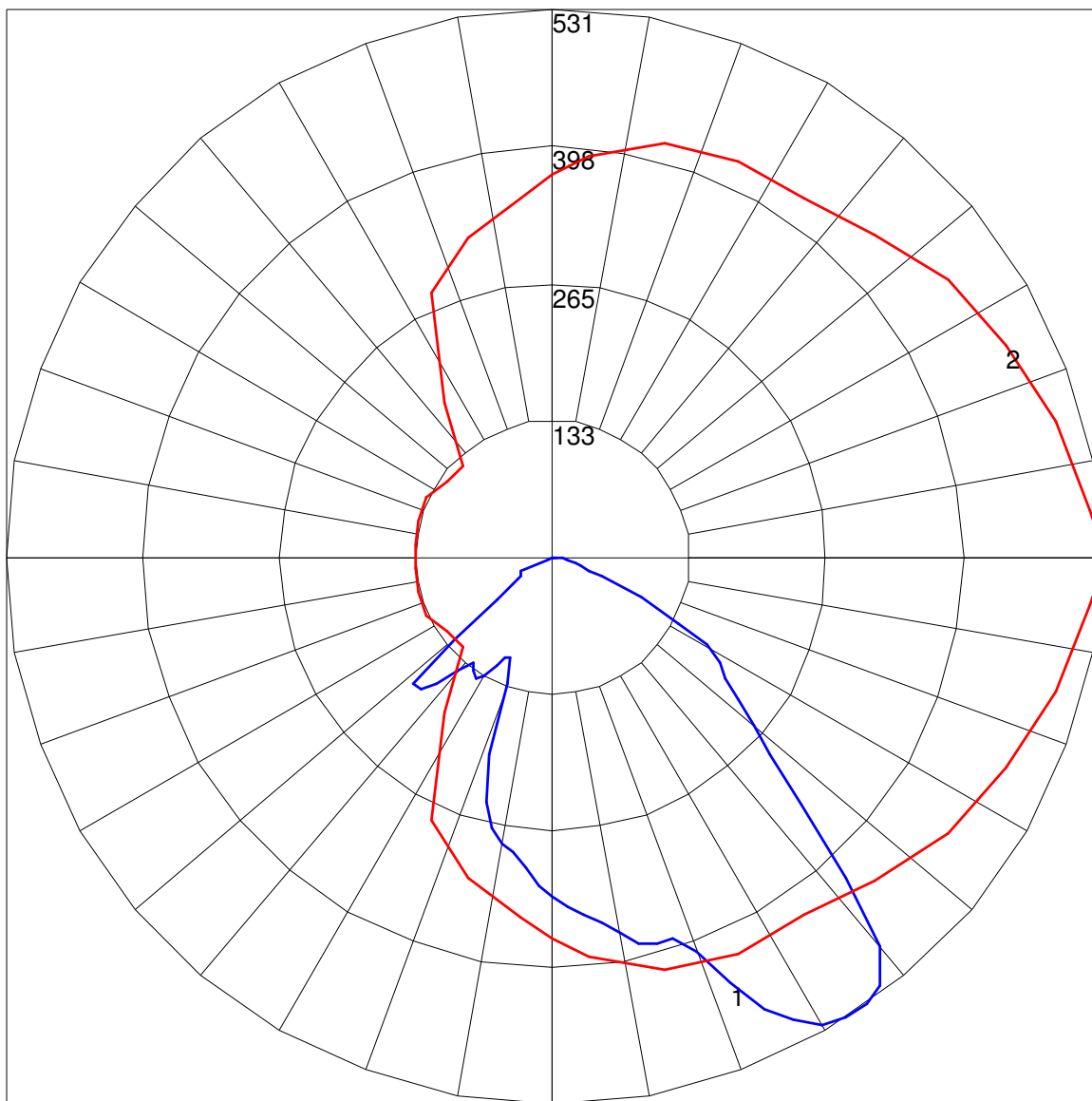
4H	2H	22.8	24.3	23.2	24.7	25.0	24.6	26.1	25.0	26.5	26.9
	3H	23.5	24.8	23.9	25.2	25.6	28.9	30.2	29.3	30.5	30.9
	4H	23.6	24.8	24.1	25.2	25.6	30.7	31.9	31.2	32.3	32.7
	6H	23.7	24.7	24.1	25.1	25.5	31.3	32.3	31.8	32.8	33.2
	8H	23.6	24.6	24.1	25.0	25.5	31.3	32.3	31.8	32.7	33.2
	12H	23.6	24.5	24.1	24.9	25.4	31.3	32.2	31.8	32.6	33.1
8H	4H	25.1	26.0	25.5	26.5	26.9	30.7	31.7	31.2	32.1	32.6
	6H	25.2	25.9	25.6	26.4	26.9	31.4	32.2	31.9	32.7	33.1
	8H	25.1	25.8	25.6	26.3	26.8	31.4	32.1	31.9	32.6	33.1
	12H	25.1	25.7	25.6	26.2	26.8	31.4	32.0	31.9	32.5	33.1
12H	4H	25.4	26.2	25.9	26.7	27.2	30.7	31.6	31.2	32.0	32.5
	6H	25.5	26.2	26.0	26.6	27.1	31.4	32.1	31.9	32.5	33.1
	8H	25.5	26.1	26.0	26.6	27.1	31.4	32.0	31.9	32.5	33.1

Maximum UGR = 33.2

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## POLAR GRAPH



Maximum Candela = 530.654 Located At Horizontal Angle = 0, Vertical Angle = 35

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)