

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWPX-L60-740-T3-XXX-CGL-(L40)-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM ATAL009827

[TESTLAB]ATAL-LABS

[ISSUEDATE]11/11/25

[MANUFAC]WILLIAMS OUTDOOR

[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT]VWPH-L60-740-T3-xxx-CGL-(L40)-DIM-UNV

[LUMINAIRE]VOLTAIRE HORIZONTAL ARCHITECTURAL WALL PACK WITH TYPE III

[MORE]MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A CLEAR GLASS

[MORE]LENS.

[LAMPCAT]X8-LUXEON M 4000K

[LAMP](8) LUXEON M 4000K LEDS

[BALLASTCAT]X1-EUC-075S070DT

[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER

[_SEARCH_SOURCE]TYPE] LED

[_SEARCH_APPLICATION] Outdoor, Architectural, Area, Commercial, Facade, Industrial, Manufacturing, Office, Site, Direct, Wet

[_SEARCH_MOUNTING] Wall

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	33
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : VWPX-L60-740-T3-XXX-CGL-(L40)-DIM-UNV.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	44344	63438	48440
55	33045	79147	63721
65	20510	64035	91917
75	7717	40358	114978
85	2292	9395	10083

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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	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124
2.5	1141.712	1145.344	1151.154	1146.796	1146.070	1140.260	1134.449	1126.460	1125.008	1115.566
5.0	1173.668	1178.026	1183.110	1180.205	1179.479	1175.121	1169.311	1162.774	1160.595	1144.617
7.5	1199.088	1203.446	1206.351	1204.172	1202.720	1204.172	1201.267	1198.362	1198.362	1180.205
10.0	1243.391	1247.023	1248.475	1244.844	1240.486	1239.760	1234.676	1231.771	1236.129	1217.245
12.5	1290.600	1292.778	1292.778	1292.778	1292.052	1292.052	1280.432	1268.811	1271.716	1251.380
15.0	1300.041	1302.220	1302.946	1310.209	1322.556	1337.081	1331.271	1313.114	1305.125	1278.979
17.5	1305.125	1304.399	1305.125	1308.030	1322.556	1351.607	1365.406	1356.691	1334.903	1301.494
20.0	1369.764	1369.764	1369.764	1352.333	1339.987	1348.702	1374.122	1387.921	1363.228	1321.103
22.5	1500.494	1493.232	1486.695	1443.118	1396.636	1363.954	1365.406	1400.268	1385.742	1342.165
25.0	1621.783	1614.520	1603.626	1537.535	1465.633	1402.447	1363.954	1393.731	1403.173	1355.965
27.5	1700.221	1696.590	1687.148	1607.984	1520.830	1448.929	1383.563	1383.563	1413.341	1366.859
30.0	1756.145	1750.335	1737.262	1653.740	1561.502	1489.600	1415.520	1386.468	1419.877	1374.848
32.5	1779.386	1772.123	1753.966	1681.338	1599.995	1527.367	1450.381	1402.447	1421.330	1381.385
35.0	1780.838	1774.302	1757.598	1695.137	1631.951	1567.312	1485.243	1422.056	1425.688	1394.458
37.5	1755.419	1753.966	1737.988	1695.137	1666.086	1608.710	1518.651	1429.319	1431.498	1406.804
40.0	1653.740	1643.572	1632.677	1647.203	1678.433	1655.192	1552.787	1432.950	1438.034	1429.319
42.5	1412.615	1399.542	1393.005	1475.801	1647.203	1705.305	1593.458	1439.487	1438.761	1462.002
45.0	1140.260	1126.460	1124.281	1207.077	1509.936	1732.178	1631.225	1450.381	1441.666	1493.232
47.5	955.058	946.343	946.343	1011.708	1238.307	1714.747	1670.444	1462.728	1443.845	1525.188
50.0	850.474	843.211	843.211	903.492	1085.789	1629.046	1714.747	1474.348	1451.107	1551.334
52.5	763.320	756.784	758.236	817.065	1026.960	1406.078	1722.010	1505.578	1479.432	1577.480
55.0	689.240	684.882	689.966	745.890	985.562	1300.767	1650.834	1570.944	1506.305	1609.436
57.5	640.579	639.126	641.305	694.324	947.069	1238.307	1475.801	1641.393	1538.987	1614.520
60.0	575.214	572.309	569.403	618.791	885.335	1151.880	1315.293	1670.444	1542.619	1600.721
62.5	463.367	459.735	456.830	506.217	771.309	1032.044	1158.417	1624.688	1509.936	1584.017
65.0	315.206	313.027	310.122	371.129	621.696	878.072	984.109	1509.210	1490.327	1606.531
67.5	170.676	171.402	177.939	228.052	460.462	721.196	829.412	1302.220	1508.484	1631.225
70.0	123.468	124.194	127.099	171.402	341.352	562.141	680.524	1104.672	1557.871	1643.572
72.5	94.416	94.416	98.048	130.730	262.913	422.695	528.732	913.660	1526.641	1553.513
75.0	72.628	71.902	74.081	97.322	198.274	292.691	379.844	679.798	1360.322	1316.019
77.5	50.840	50.113	52.292	66.091	140.898	193.190	254.924	440.126	1083.610	940.533
80.0	30.504	29.777	31.230	39.219	88.606	122.741	148.161	292.691	554.152	440.126
82.5	15.978	15.252	15.978	18.883	45.029	67.544	70.449	191.738	199.727	161.234
85.0	7.263	6.537	7.263	8.715	18.157	30.504	29.777	84.975	62.460	62.460
87.5	2.179	2.179	2.179	2.905	5.084	7.263	9.442	18.883	16.704	18.883
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	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124	1106.124
2.5	1108.303	1103.946	1101.040	1095.230	1092.325	1082.883	1077.799	1074.894	1072.716	1068.358
5.0	1131.544	1122.829	1115.566	1099.588	1085.789	1061.095	1044.391	1029.865	1018.971	1009.529
7.5	1163.501	1151.154	1138.807	1111.208	1085.789	1049.475	1021.150	997.909	979.025	966.679
10.0	1195.457	1180.205	1163.501	1124.281	1088.694	1045.117	1009.529	981.931	958.690	943.438
12.5	1222.329	1202.720	1183.110	1133.723	1091.599	1042.938	1008.077	973.941	939.806	909.303
15.0	1244.118	1220.877	1194.004	1136.628	1087.241	1041.485	1004.445	951.427	895.503	845.390
17.5	1260.822	1232.497	1199.088	1131.544	1077.799	1034.223	982.657	902.766	818.518	731.364
20.0	1272.443	1239.034	1199.088	1120.650	1065.453	1017.518	939.806	820.696	673.262	520.016
22.5	1282.610	1244.118	1200.541	1111.935	1056.011	987.014	873.715	681.251	464.093	370.403
25.0	1294.957	1251.380	1201.993	1107.577	1043.664	944.164	769.857	482.976	373.308	360.961
27.5	1302.220	1255.738	1202.720	1105.398	1029.865	887.514	625.327	392.917	377.666	395.823
30.0	1306.578	1257.191	1197.636	1099.588	1009.529	812.707	473.535	386.381	411.074	436.494

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CANDELA TABULATION - (Cont.)

32.5	1308.757	1253.559	1188.194	1089.420	981.204	716.112	416.885	406.717	443.757	465.545
35.0	1305.851	1244.844	1174.395	1078.526	945.617	615.885	416.158	423.421	451.746	451.746
37.5	1307.304	1237.581	1160.595	1062.548	899.135	514.933	411.801	421.969	426.326	429.231
40.0	1314.567	1236.855	1151.880	1042.212	836.675	432.863	394.370	395.823	400.907	434.315
42.5	1326.914	1239.034	1145.344	1016.066	766.225	370.403	352.972	373.308	420.516	522.922
45.0	1345.797	1245.570	1143.165	992.098	681.251	315.206	309.395	352.972	496.776	574.487
47.5	1371.217	1262.275	1151.880	973.941	604.991	260.008	266.545	412.527	528.006	592.644
50.0	1403.173	1281.158	1162.048	960.142	546.889	216.431	241.851	442.305	470.629	437.947
52.5	1426.414	1297.136	1172.942	956.511	520.743	190.285	249.840	329.731	248.388	226.599
55.0	1469.264	1329.092	1198.362	963.774	508.396	171.402	193.917	189.559	167.044	160.508
57.5	1524.462	1366.859	1215.793	955.784	478.619	159.055	146.709	148.161	144.530	136.541
60.0	1534.630	1387.921	1236.855	937.627	440.126	146.709	128.552	127.825	129.278	125.646
62.5	1554.965	1387.921	1228.866	886.788	405.264	133.636	116.931	110.395	115.479	111.121
65.0	1602.900	1412.615	1226.687	843.937	364.593	119.836	102.405	94.416	87.880	92.964
67.5	1674.802	1458.370	1263.727	857.737	329.005	107.489	80.617	64.639	54.471	49.387
70.0	1706.032	1470.717	1272.443	883.156	295.596	91.511	54.471	30.504	13.799	2.905
72.5	1601.447	1366.859	1176.574	833.769	256.377	68.270	27.599	5.810	2.179	2.179
75.0	1273.895	1082.157	926.007	704.492	183.749	39.945	5.084	2.179	1.453	1.453
77.5	729.185	615.885	517.838	493.870	89.332	11.620	1.453	1.453	0.726	0.726
80.0	268.724	225.147	171.402	203.358	29.051	2.179	0.726	0.726	0.726	0.726
82.5	97.322	79.165	63.186	54.471	7.989	0.726	0.726	0.726	0.726	0.000
85.0	37.040	31.956	26.146	15.252	1.453	0.726	0.726	0.726	0.726	0.726
87.5	10.894	10.168	8.715	2.179	0.726	0.726	0.726	0.726	0.726	0.726
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	1106.124	1106.124
2.5	1073.442	1071.989
5.0	1012.434	1012.434
7.5	965.952	972.489
10.0	939.806	947.795
12.5	897.682	907.124
15.0	823.601	823.601
17.5	689.240	678.345
20.0	459.009	443.757
22.5	352.972	353.698
25.0	363.140	363.140
27.5	403.085	403.085
30.0	444.483	444.483
32.5	469.903	469.903
35.0	450.294	448.841
37.5	431.410	430.684
40.0	482.250	480.797
42.5	560.688	559.962
45.0	604.991	604.265
47.5	610.075	615.159
50.0	400.907	413.980
52.5	223.694	230.231
55.0	157.603	159.782
57.5	132.909	132.909
60.0	123.468	122.741
62.5	116.931	117.657
65.0	109.668	112.573
67.5	31.956	21.788

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70.0	2.179	2.179
72.5	2.179	2.179
75.0	1.453	1.453
77.5	0.726	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.726
87.5	0.726	0.000
90.0	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	428.99	N.A.	10.00
0-30	932.63	N.A.	21.60
0-40	1617.15	N.A.	37.50
0-60	3170.25	N.A.	73.60
0-80	4268.45	N.A.	99.10
0-90	4309.05	N.A.	100.00
10-90	4202.56	N.A.	97.50
20-40	1188.16	N.A.	27.60
20-50	1975.83	N.A.	45.90
40-70	2235.7	N.A.	51.90
60-80	1098.21	N.A.	25.50
70-80	415.60	N.A.	9.60
80-90	40.60	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	4309.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.50
10-20	322.49
20-30	503.64
30-40	684.52
40-50	787.67
50-60	765.43
60-70	682.61
70-80	415.60
80-90	40.60
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

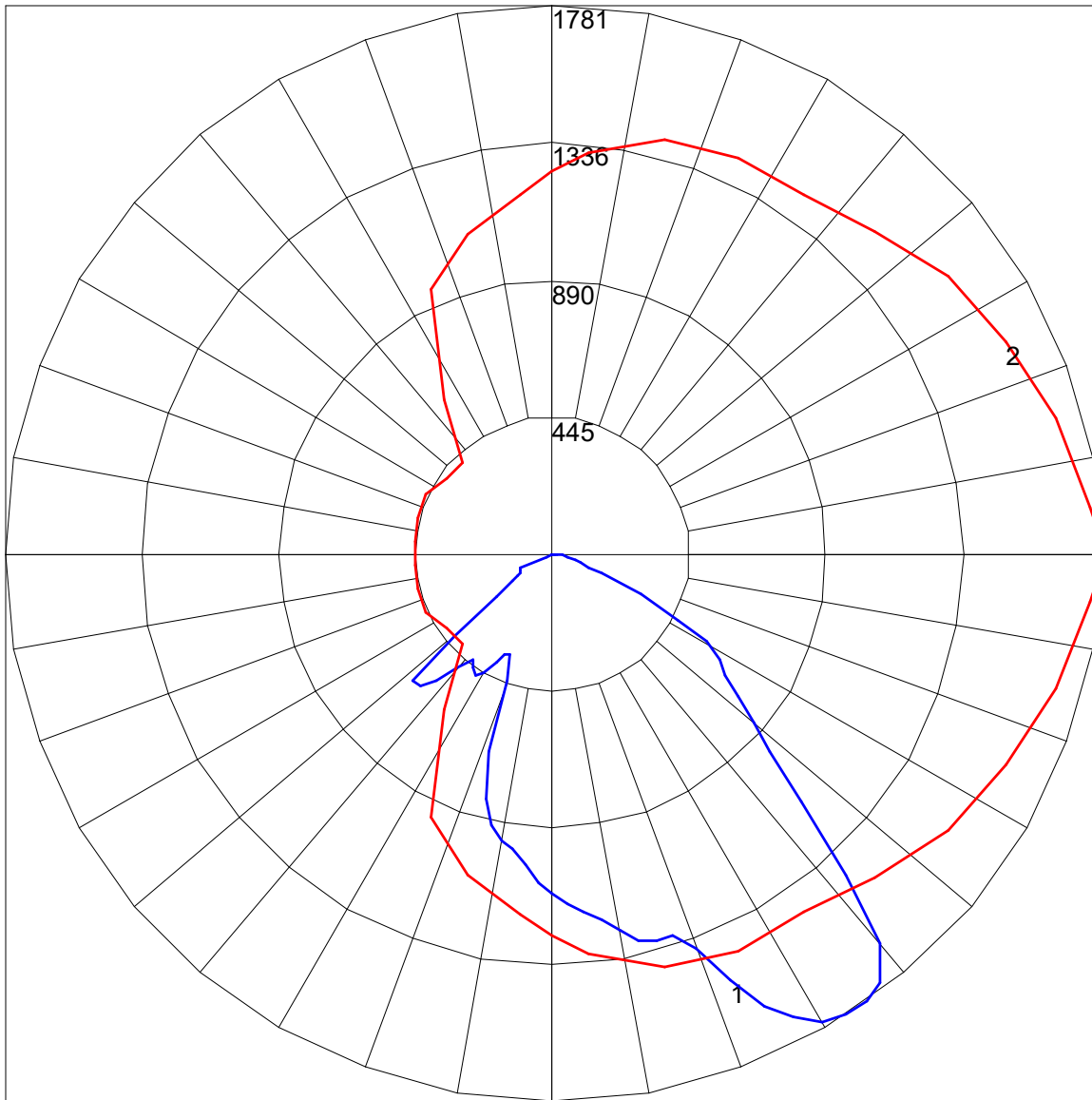
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	25.2	26.9	25.6	27.2	27.6	28.5	30.3	28.9	30.6	30.9
	3H	25.4	27.0	25.8	27.3	27.7	32.6	34.1	32.9	34.5	34.8
	4H	25.5	27.0	25.9	27.3	27.7	34.1	35.6	34.5	36.0	36.3
	6H	25.5	26.9	25.9	27.2	27.6	34.5	35.9	34.9	36.3	36.7
	8H	25.5	26.8	25.9	27.2	27.6	34.5	35.8	35.0	36.2	36.6
	12H	25.4	26.7	25.9	27.1	27.5	34.5	35.8	34.9	36.2	36.6
4H	2H	27.0	28.5	27.4	28.9	29.2	28.8	30.3	29.2	30.7	31.1
	3H	27.7	29.0	28.1	29.4	29.8	33.1	34.4	33.5	34.7	35.1
	4H	27.8	29.0	28.3	29.4	29.8	34.9	36.1	35.4	36.5	36.9
	6H	27.9	28.9	28.3	29.3	29.7	35.5	36.5	36.0	37.0	37.4
	8H	27.8	28.8	28.3	29.2	29.7	35.5	36.5	36.0	36.9	37.4
	12H	27.8	28.7	28.3	29.1	29.6	35.5	36.4	36.0	36.8	37.3
8H	4H	29.3	30.2	29.7	30.7	31.1	34.9	35.9	35.4	36.3	36.8
	6H	29.3	30.1	29.8	30.6	31.1	35.6	36.4	36.1	36.9	37.3
	8H	29.3	30.0	29.8	30.5	31.0	35.6	36.3	36.1	36.8	37.3
	12H	29.3	29.9	29.8	30.4	31.0	35.6	36.2	36.1	36.7	37.3
12H	4H	29.6	30.4	30.1	30.9	31.4	34.9	35.8	35.4	36.2	36.7
	6H	29.7	30.3	30.2	30.8	31.3	35.6	36.3	36.1	36.7	37.3
	8H	29.7	30.3	30.2	30.8	31.3	35.6	36.2	36.1	36.7	37.3

Maximum UGR = 37.4

POLAR GRAPH



Maximum Candela = 1780.838 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.)