

OUTDOOR PHOTOMETRIC REPORT

CATALOG: VAP 6000LM FST MD 40K 80CRI



Test #: ISF36812P29
 Test Lab: SCALED PHOTOMETRY
 Catalog: VAP 6000LM FST MD 40K 80CRI
 Description: VAP LED with BLT Gen 2 Boards
 Series: VAP LED
 Lamp Output: Total luminaire Lumens: 5442.5, **absolute photometry ***
 Input Wattage: 49.31
 Luminous Opening: Rectangle w/Luminous Sides (L: 1.39M, W: 0.2M, H: 0.01M)
 Max Cd: 1,942.6 at Horizontal: 270°, Vertical: 2.5°
 Roadway Class: Type VS

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,458.8	26.8%
0-40	2,347.3	43.1%
0-60	4,014.7	73.8%
60-90	1,120.1	20.6%
70-100	597.6	11%
90-120	165.4	3%
0-90	5,134.8	94.3%
90-180	307.7	5.7%
0-180	5,442.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	182.7	3.4%	90-100	65.2	1.2%
10-20	515.3	9.5%	100-110	50.7	0.9%
20-30	760.8	14.0%	110-120	49.5	0.9%
30-40	888.6	16.3%	120-130	45.1	0.8%
40-50	889.6	16.3%	130-140	38.3	0.7%
50-60	777.7	14.3%	140-150	29.2	0.5%
60-70	587.7	10.8%	150-160	18.1	0.3%
70-80	365.0	6.7%	160-170	9.0	0.2%
80-90	167.4	3.1%	170-180	2.6	0%

*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.

*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.

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Roadway Summary

Distribution:	Type VS	
Max Cd, 90 Deg Vert:	172.9	
Max Cd, 80 to <90 Deg:	340.1	
	Lumens	% Lamp
Downward Street Side:	2,548.6	46.8%
Downward House Side:	2,586.7	47.5%
Downward Total:	5,135.3	94.4%
Upward Street Side:	153.4	2.8%
Upward House Side:	154.2	2.8%
Upward Total:	307.7	5.7%
Total Lumens:	5,443.0	100%

LCS Table

BUG Rating	B2 - U3 - G1	
Forward Light	Lumens	Lumens %
Low(0-30):	727.1	13.4%
Medium(30-60):	1,268.8	23.3%
High(60-80):	470.5	8.6%
Very High(80-90):	82.1	1.5%
Back Light		
Low(0-30):	731.9	13.4%
Medium(30-60):	1,287.4	23.7%
High(60-80):	482.2	8.9%
Very High(80-90):	85.2	1.6%
Uplight		
Low(90-100):	65.2	1.2%
High(100-180):	242.5	4.5%
Trapped Light:	0.000	0%

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Candela Table - Type C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937	1937
2.5	1930	1933	1931	1933	1938	1935	1937	1938	1931	1938	1937	1935	1943	1937	1935	1935	1930
5	1921	1922	1920	1918	1924	1921	1927	1930	1927	1934	1930	1930	1935	1930	1930	1928	1921
7.5	1908	1907	1899	1897	1901	1904	1911	1915	1914	1924	1918	1917	1922	1918	1915	1915	1908
10	1886	1884	1873	1869	1875	1875	1886	1897	1895	1905	1901	1898	1902	1897	1897	1895	1886
12.5	1860	1856	1843	1835	1840	1845	1856	1871	1872	1881	1875	1873	1878	1871	1871	1872	1860
15	1827	1820	1807	1796	1800	1806	1823	1839	1843	1852	1848	1842	1848	1842	1840	1840	1827
17.5	1791	1783	1764	1754	1760	1761	1781	1803	1810	1816	1811	1810	1813	1807	1806	1803	1791
20	1747	1737	1719	1705	1712	1718	1739	1758	1768	1774	1771	1770	1777	1767	1765	1762	1747
22.5	1703	1685	1667	1657	1659	1667	1689	1711	1721	1731	1731	1728	1735	1728	1719	1715	1703
25	1650	1634	1611	1601	1610	1613	1634	1660	1673	1679	1682	1685	1693	1679	1673	1663	1650
27.5	1592	1575	1559	1549	1554	1562	1582	1604	1617	1624	1630	1634	1646	1634	1621	1613	1592
30	1536	1515	1497	1489	1494	1502	1522	1542	1561	1572	1579	1582	1594	1581	1564	1552	1536
32.5	1470	1456	1435	1428	1440	1441	1458	1483	1497	1510	1520	1532	1545	1526	1509	1494	1470
35	1402	1388	1375	1365	1375	1383	1399	1415	1431	1444	1460	1474	1486	1467	1447	1427	1402
37.5	1337	1317	1307	1306	1316	1316	1330	1345	1360	1382	1402	1418	1425	1411	1388	1358	1337
40	1265	1251	1238	1238	1248	1249	1262	1280	1294	1311	1336	1353	1368	1346	1320	1293	1265
42.5	1196	1179	1175	1173	1177	1186	1196	1206	1219	1245	1274	1287	1298	1284	1252	1221	1196
45	1121	1105	1102	1104	1114	1115	1126	1138	1150	1173	1203	1225	1231	1216	1189	1149	1121
47.5	1046	1039	1035	1033	1042	1051	1053	1064	1075	1100	1130	1154	1164	1146	1117	1082	1046
50	977	966	961	961	968	977	987	989	999	1033	1062	1082	1091	1079	1045	1009	977
52.5	902	898	888	895	902	905	915	921	930	958	990	1016	1025	1006	979	934	902
55	827	824	823	823	830	839	843	847	853	882	915	942	951	934	906	866	827
57.5	758	751	749	757	767	767	777	775	778	814	846	869	881	866	833	793	758
60	685	680	677	687	698	696	705	709	709	741	771	798	810	794	767	726	685
62.5	611	615	615	620	631	634	634	636	636	673	700	734	748	725	693	654	611
65	546	545	546	561	568	569	569	563	562	601	636	667	680	664	623	582	546
67.5	474	476	484	499	513	506	500	499	496	529	565	607	615	597	558	517	474
70	405	414	421	441	455	453	435	429	425	465	499	543	559	535	491	448	405
72.5	342	346	360	389	405	396	378	363	355	395	440	481	499	478	432	380	342
75	275	281	303	336	352	343	318	303	293	327	378	428	440	421	372	320	275
77.5	213	226	255	287	303	297	269	239	228	269	321	372	391	366	314	258	213
80	160	169	208	245	264	251	219	182	167	209	272	320	340	318	261	199	160
82.5	107	124	164	205	223	210	174	134	117	156	223	277	293	271	216	147	107
85	62	84	130	167	186	173	138	91	69	114	179	232	254	232	173	107	62
87.5	30	53	95	134	153	140	104	59	35	78	143	192	212	190	137	71	30
90	19	33	69	105	121	108	73	36	19	49	107	157	173	153	102	45	19
92.5	17	26	53	82	97	85	56	26	17	35	79	125	143	124	76	32	17
95	19	24	43	69	81	71	45	24	19	30	63	101	117	101	61	27	19
97.5	22	26	40	59	69	59	40	24	20	30	53	85	98	84	52	29	22
100	23	27	42	56	63	56	40	26	23	32	52	75	86	75	50	29	23
102.5	23	29	42	56	62	56	40	27	24	33	53	73	81	72	50	30	23
105	24	30	43	58	63	56	42	29	24	35	53	72	79	72	52	32	24
107.5	24	32	43	58	63	56	42	30	26	36	53	72	79	72	52	35	24
110	26	33	45	58	63	58	43	32	26	37	55	72	79	72	53	36	26
112.5	26	35	45	58	62	58	45	35	26	39	55	72	79	71	53	37	26
115	26	35	46	58	62	56	45	36	26	40	56	72	78	71	55	39	26
117.5	26	36	48	58	61	56	46	37	27	40	56	71	76	71	55	40	26
120	27	36	48	56	61	56	48	37	27	42	56	69	75	69	55	42	27
122.5	27	36	48	56	61	56	49	39	27	42	55	69	73	68	56	43	27
125	27	36	48	56	61	56	49	39	29	42	55	68	72	68	56	43	27
127.5	29	36	48	56	59	58	50	39	29	42	53	66	71	68	56	43	29
130	29	35	48	56	59	58	52	39	30	42	53	65	71	66	56	45	29
132.5	29	35	48	55	59	58	53	39	30	40	52	65	69	66	58	45	29
135	29	33	46	55	59	58	53	39	30	39	52	63	69	65	59	45	29
137.5	29	32	45	55	59	58	55	39	29	37	50	61	68	65	61	43	29
140	29	32	43	55	59	59	55	37	29	36	49	59	66	65	61	43	29
142.5	29	30	40	53	61	61	52	36	29	35	48	59	65	65	61	40	29



145	29	29	37	52	61	61	49	36	29	33	43	58	66	66	59	39	29
147.5	29	29	35	49	62	59	46	35	29	32	40	56	68	66	56	37	29
150	29	29	32	43	59	55	43	33	29	32	37	52	68	65	52	37	29
152.5	29	29	30	39	53	50	42	33	29	32	36	48	65	62	49	36	29
155	29	29	29	33	48	46	39	33	29	30	33	42	59	58	46	36	29
157.5	30	29	27	30	42	43	37	33	30	30	32	36	53	52	43	35	30
160	30	29	27	27	39	39	37	32	30	30	30	32	46	46	40	35	30
162.5	30	29	27	24	35	36	36	32	30	30	29	29	42	42	39	33	30
165	30	29	26	23	32	35	33	32	30	30	29	26	37	39	36	33	30
167.5	30	29	26	22	29	32	32	30	30	30	29	23	35	36	35	32	30
170	30	29	26	20	26	30	30	30	30	30	27	22	30	33	32	30	30
172.5	30	29	26	20	22	27	29	30	30	30	27	20	26	30	30	30	30
175	30	30	27	20	14	24	27	30	30	30	27	20	19	27	29	30	30
177.5	30	30	27	22	10	23	27	30	30	30	27	20	12	24	27	30	30
180	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24