



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L88-750-NS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ATAL009599-R2
 [TESTLAB]ATAL-LABS
 [ISSUE DATE]29 NOV 2022
 [MANUFACTURER]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMEN CATEGORY]VF2-L88-750-NS-MTG-CLR-OPT-DIM-UNV
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH
 [MORE]NARROW SPOT MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR
 [MORE]GLASS LENS.
 [LAMP CATEGORY]LUXEON TX 5000K LEDS
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 75, AMPS: 0.4470, VAC: 120.05, TEMP: 24.9 C
 [SEARCH_SOURCE TYPE] LED
 [SEARCH_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location
 [SEARCH_MOUNTING] Arm, Ground, Pole, Post Top, Wall
 [SEARCH_CERTIFICATION] DLC
 [SEARCH_CLASSIFICATION] IP66

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	75
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11783	12273	11747
55	15429	16357	13263
65	31839	30022	27553
75	21595	23056	16596
85	0	9736	4156

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CANDELA TABULATION - (Cont.)

42.5	327.416	326.763	326.869	325.341	323.204	328.022	329.800	330.286	329.041	327.383
45.0	294.927	293.789	291.481	293.085	293.997	294.236	293.305	294.983	296.153	295.913
47.5	268.248	269.209	271.046	270.455	270.860	271.743	271.697	271.972	271.125	269.041
50.0	256.976	256.391	257.417	259.960	258.324	257.467	254.022	257.647	259.395	258.370
52.5	259.806	262.295	260.654	260.946	257.222	260.364	262.414	259.714	257.063	254.585
55.0	283.821	287.985	282.782	284.041	287.273	283.893	279.951	286.018	291.661	296.599
57.5	332.003	330.681	332.074	329.728	326.553	328.376	333.863	337.986	339.401	341.611
60.0	380.767	381.808	378.752	369.390	369.014	375.362	385.879	392.018	390.984	377.463
62.5	414.219	399.438	394.675	393.631	401.175	415.433	411.634	403.060	385.321	372.117
65.0	396.098	392.467	394.541	399.307	392.693	388.717	383.092	379.614	370.488	362.940
67.5	359.230	366.157	359.314	357.710	354.751	353.060	351.987	351.651	350.806	349.936
70.0	302.868	307.227	307.965	311.017	314.850	315.763	318.563	317.895	314.034	308.690
72.5	242.673	247.297	252.498	260.679	266.245	261.947	258.895	255.456	252.971	249.185
75.0	183.565	189.094	192.614	196.465	199.273	197.353	195.053	192.902	191.278	189.306
77.5	131.962	134.061	134.668	134.876	134.461	132.779	131.291	130.255	129.555	131.472
80.0	83.327	81.942	79.208	79.193	82.103	85.178	89.001	92.303	94.757	96.587
82.5	50.223	52.128	53.583	54.795	56.091	57.338	59.409	61.118	61.906	62.207
85.0	31.494	31.666	31.516	31.133	30.711	30.168	30.402	30.416	29.480	28.171
87.5	13.997	13.191	12.495	11.890	11.362	10.910	11.083	11.255	10.901	10.447
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>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	46347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347	03946347.03946347
2.5	44433.20244432	31544476.24044428	13844400.14644379	11644364.97844357	64044356.99344362	908				
5.0	39783.68939719	19039685.34439682	00539708.94939765	87739852.41940066	20439706.54939642	684				
7.5	30557.38430515	53530522.65530241	08130400.92630344	66130345.00230403	00930519.70130659	505				
10.0	20280.51420048	30219900.18919848	05119824.46419833	03819791.30619799	80619863.03619985	580				
12.5	12361.74212254	34712243.35812189	63512102.22812034	24211991.03311949	50911926.51011947	222				
15.0	7720.330	7742.524	7701.828	7665.339	7669.624	7554.060	7478.758	7424.657	7383.830	7369.137
17.5	4992.968	5012.056	5023.921	5003.726	4965.261	4934.602	4834.284	4888.714	4916.967	4900.609
20.0	3344.295	3378.436	3369.126	3368.388	3349.144	3308.859	3281.443	3244.181	3257.569	3264.963
22.5	2374.410	2382.960	2390.532	2395.562	2399.622	2393.462	2375.903	2358.480	2335.161	2319.367
25.0	1786.190	1764.361	1765.307	1760.573	1760.193	1764.186	1759.212	1755.189	1744.774	1737.781
27.5	1322.609	1314.337	1305.631	1294.146	1294.516	1295.177	1301.560	1301.487	1301.281	1297.241
30.0	953.666	958.501	956.898	953.574	937.884	926.691	929.227	937.724	946.089	946.738
32.5	690.456	690.869	701.068	706.742	708.058	704.294	702.858	702.147	701.202	697.327
35.0	547.251	534.303	532.592	532.575	533.723	534.181	534.856	537.725	540.860	543.069
37.5	435.385	437.337	434.170	442.596	442.657	438.557	433.752	430.416	428.281	427.327
40.0	374.204	375.662	371.442	370.042	370.571	368.145	366.521	365.872	365.909	366.599
42.5	328.443	329.672	329.856	327.616	326.637	323.067	319.765	317.228	314.543	312.532
45.0	295.027	293.614	292.312	289.894	289.766	289.190	287.775	286.975	285.604	284.583
47.5	269.573	269.568	269.554	269.006	268.268	267.256	265.750	263.577	261.445	259.686
50.0	255.733	253.517	250.759	251.918	257.179	259.354	260.800	260.647	259.367	257.851
52.5	261.954	266.902	269.197	271.168	271.294	269.489	267.745	265.856	262.527	258.861
55.0	299.406	299.303	296.758	293.185	288.377	281.595	275.653	271.647	266.296	260.210
57.5	340.680	335.710	327.570	316.604	308.906	301.505	296.622	294.908	292.904	289.677
60.0	364.138	351.791	341.660	333.606	330.101	326.598	324.684	323.652	323.545	321.759
62.5	363.339	356.617	351.895	348.723	349.203	350.665	352.225	351.914	353.795	353.623
65.0	359.154	357.990	359.274	361.585	366.530	372.873	378.723	380.316	383.688	385.294
67.5	351.916	356.251	354.036	351.140	349.368	348.705	347.637	343.176	339.860	336.155
70.0	304.291	300.628	298.008	295.683	294.019	293.205	292.066	288.609	284.854	280.423
72.5	246.317	244.085	242.025	240.169	238.787	237.863	236.527	233.869	229.936	224.862
75.0	187.922	187.214	186.080	184.605	183.651	182.653	181.014	178.980	175.088	169.309
77.5	134.153	136.641	137.924	137.951	137.850	137.844	137.004	136.029	133.457	129.347

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80.0	97.695	98.626	99.007	98.491	97.092	96.613	95.819	94.934	93.010	90.095
82.5	61.684	61.004	60.215	59.242	56.530	55.533	54.657	53.809	52.500	50.769
85.0	25.978	23.649	21.508	20.123	16.083	14.498	13.509	12.661	10.719	10.719
87.5	9.530	8.622	7.884	7.719	6.007	5.619	5.548	5.489	5.442	5.406
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>177.5</u>	<u>180.0</u>
0.0	46347.039	46347.039	46347.039
2.5	44375.242	44393.837	44418.518
5.0	39578.453	39513.979	39449.382
7.5	30405.962	30220.132	30095.294
10.0	20111.069	20169.174	20300.836
12.5	12049.963	12039.594	12104.843
15.0	7303.650	7387.488	7437.179
17.5	4904.271	4922.373	4949.306
20.0	3269.980	3286.348	3309.780
22.5	2277.240	2299.919	2315.297
25.0	1732.967	1736.746	1740.641
27.5	1294.188	1294.116	1298.016
30.0	947.055	945.468	948.629
32.5	693.604	689.120	689.587
35.0	544.475	542.896	543.293
37.5	428.297	424.720	425.186
40.0	368.107	367.475	366.232
42.5	311.187	309.064	307.277
45.0	284.043	283.442	281.373
47.5	258.369	257.255	255.469
50.0	256.253	254.849	251.896
52.5	255.445	252.496	248.323
55.0	254.861	250.195	244.750
57.5	286.969	284.305	280.927
60.0	320.311	318.712	317.103
62.5	353.505	353.070	353.280
65.0	387.669	387.669	389.456
67.5	334.001	332.409	332.735
70.0	278.464	276.716	276.014
72.5	222.915	221.049	219.292
75.0	166.144	165.098	162.571
77.5	127.954	125.579	122.822
80.0	88.946	85.832	83.072
82.5	49.958	46.076	43.323
85.0	10.685	6.236	3.573
87.5	5.376	3.127	1.787
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5822.94	N.A.	71.20
0-30	6703.12	N.A.	82.00
0-40	7061.05	N.A.	86.40
0-60	7569.89	N.A.	92.60
0-80	8137.87	N.A.	99.50
0-90	8174.75	N.A.	100.00
10-90	4889.63	N.A.	59.80
20-40	1238.11	N.A.	15.10
20-50	1469.56	N.A.	18.00
40-70	877.72	N.A.	10.70
60-80	567.98	N.A.	6.90
70-80	199.10	N.A.	2.40
80-90	36.88	N.A.	0.50
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	8174.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3285.12
10-20	2537.82
20-30	880.18
30-40	357.93
40-50	231.45
50-60	277.39
60-70	368.88
70-80	199.10
80-90	36.88
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

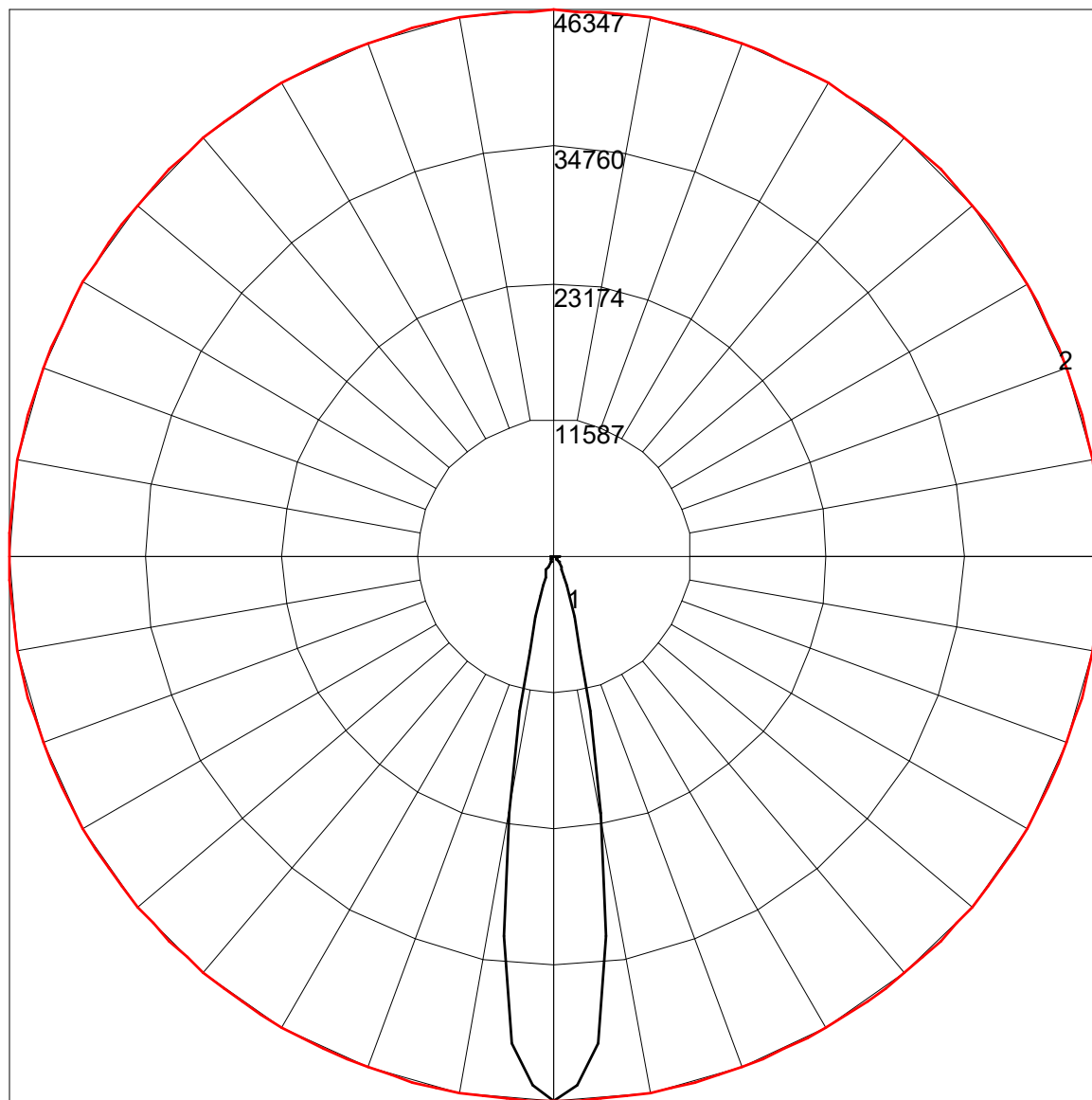
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	186	186	186	186	182	182	182	182	174	174	174	166	166	166	159	159	159	156
1	178	173	170	166	174	170	167	164	164	161	159	158	156	154	153	151	149	147
2	170	163	157	152	167	160	155	150	155	151	147	151	147	144	146	143	141	138
3	163	154	147	142	160	152	146	140	148	143	138	144	140	136	141	137	134	132
4	157	147	139	134	154	145	138	133	142	136	131	139	134	130	136	132	128	126
5	152	141	133	127	149	139	132	127	137	130	126	134	129	125	132	127	124	122
6	147	135	128	122	145	134	127	122	132	126	121	130	125	120	128	123	120	118
7	143	131	123	118	141	130	123	118	128	122	117	126	121	117	125	120	116	114
8	139	127	119	114	137	126	119	114	124	118	114	123	117	113	122	117	113	111
9	135	123	116	111	133	123	116	111	121	115	111	120	114	110	119	114	110	108
10	131	120	113	108	130	119	113	108	118	112	108	117	112	108	116	111	107	106

POLAR GRAPH



Maximum Candela = 46347.039 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)