



IES INDOOR REPORT

PHOTOMETRIC FILENAME : WMA-3-L30-835-AF-CT-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2014.0.0 see: www.ltiopics.com/ies
 [ISSUEDATE] 11/13/2019
 [TESTDATE]
 [TEST] WMA CLOSED TOP
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] WMA-3-L30-835-AF-CT-DIM-UNV
 [LUMINAIRE] 3' WALL MOUNT LUMINAIRE WITH CLOSED TOP
 [LAMP]
 [LAMPCAT]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3126
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.54 ft
Luminous Width (90-270)	3.09 ft
Luminous Height	0.48 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5005	4817	5030
55	4587	4240	4533
65	3910	3605	3671
75	3279	2883	2380
85	2420	1947	785

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1063.331	1063.331	1063.331	1063.331	1063.331	1063.331	1063.331	1063.331	1063.331
5	1144.126	1083.551	1070.142	1062.522	1054.738	991.322	977.547	995.513	1021.128
10	1146.043	1151.245	1118.568	1089.746	1049.093	990.937	951.017	925.864	915.191
15	1194.151	1168.353	1131.111	1055.894	1012.631	946.749	874.731	850.715	853.239
20	1177.861	1185.462	1119.859	1031.445	936.817	890.375	815.236	770.951	738.092
25	1169.471	1177.380	1107.452	1014.799	901.020	822.624	736.040	697.459	668.983
30	1173.642	1155.676	1077.377	974.532	855.079	743.285	655.429	614.671	584.114
35	1159.847	1126.651	1031.570	919.506	785.334	675.476	580.135	521.690	499.168
40	1113.839	1077.704	984.425	853.278	718.537	586.628	504.187	435.733	411.543
45	1042.282	1018.132	924.236	794.052	643.648	509.023	414.193	353.638	329.179
50	988.037	950.034	861.822	711.630	570.136	427.833	327.647	262.497	245.206
55	930.286	883.073	779.159	644.688	497.443	352.732	237.056	181.144	165.924
60	837.228	795.266	692.479	549.723	402.074	259.867	162.330	113.220	96.487
65	747.408	700.359	613.197	465.056	323.861	185.229	93.876	54.399	46.750
70	633.966	619.449	525.091	385.013	230.351	110.937	45.007	24.497	19.228
75	569.510	525.756	436.205	295.231	152.302	50.729	16.646	17.263	20.740
80	474.035	431.118	339.766	211.017	80.130	16.001	17.311	29.671	32.840
85	365.390	341.066	248.914	127.670	29.690	9.604	29.276	48.504	56.663
90	275.936	247.595	161.569	60.555	5.607	24.025	63.320	91.661	97.662
95	196.114	165.230	86.613	19.796	0.328	17.118	41.924	60.979	64.832
100	114.598	89.416	37.348	3.304	0.424	4.585	30.162	57.626	66.720
105	55.401	39.342	9.585	0.019	0.183	3.275	8.063	24.286	34.622
110	17.639	10.905	1.291	0.000	0.048	2.562	4.836	7.745	9.681
115	3.343	1.127	0.000	0.000	0.125	2.225	4.441	5.828	6.926
120	0.000	0.000	0.000	0.000	0.058	1.060	3.651	5.096	5.741
125	0.000	0.000	0.000	0.000	0.067	0.722	2.659	4.422	5.819
130	0.000	0.000	0.000	0.000	0.087	0.491	2.293	3.815	4.653
135	0.000	0.000	0.000	0.000	0.058	0.395	1.618	3.497	4.094
140	0.000	0.000	0.000	0.000	0.058	0.347	0.819	2.071	3.169
145	0.000	0.000	0.000	0.000	0.116	0.366	0.607	1.715	1.570
150	0.000	0.000	0.000	0.000	0.096	0.250	0.424	0.722	0.482
155	0.000	0.000	0.000	0.000	0.058	0.125	0.424	0.684	0.376
160	0.000	0.000	0.000	0.000	0.039	0.135	0.250	0.270	0.751
165	0.000	0.000	0.000	0.000	0.048	0.289	0.405	0.347	0.270
170	0.000	0.000	0.000	0.000	0.010	0.135	0.193	0.385	0.511
175	0.000	0.000	0.000	0.000	0.000	0.029	0.260	0.231	0.039
180	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	383.35	N.A.	12.30
0-30	807.81	N.A.	25.80
0-40	1313.38	N.A.	42.00
0-60	2287.66	N.A.	73.20
0-80	2878.23	N.A.	92.10
0-90	3025.15	N.A.	96.80
10-90	2925.67	N.A.	93.60
20-40	930.03	N.A.	29.80
20-50	1445.14	N.A.	46.20
40-70	1326.38	N.A.	42.40
60-80	590.58	N.A.	18.90
70-80	238.48	N.A.	7.60
80-90	146.92	N.A.	4.70
90-110	95.47	N.A.	3.10
90-120	98.33	N.A.	3.10
90-130	99.55	N.A.	3.20
90-150	100.53	N.A.	3.20
90-180	100.66	N.A.	3.20
110-180	5.19	N.A.	0.20
0-180	3125.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.48
10-20	283.87
20-30	424.45
30-40	505.57
40-50	515.12
50-60	459.16
60-70	352.10
70-80	238.48
80-90	146.92
90-100	75.06
100-110	20.41
110-120	2.86
120-130	1.22
130-140	0.71
140-150	0.27
150-160	0.08
160-170	0.04
170-180	0.01

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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	90	90	90	90	87	87	87	87	83	83	83	79	79	79	75	75	75	73
1	81	77	73	70	79	75	72	69	71	69	66	68	66	64	65	63	61	60
2	74	67	61	57	71	65	60	56	62	58	54	59	56	53	57	54	51	49
3	67	59	52	47	65	57	51	47	55	50	45	52	48	44	50	46	43	41
4	61	52	45	40	59	51	44	39	49	43	39	46	42	38	45	40	37	35
5	56	46	39	34	55	45	39	34	44	38	33	42	37	33	40	36	32	31
6	52	42	35	30	50	41	34	30	39	34	29	38	33	29	36	32	28	27
7	48	38	31	26	47	37	31	26	36	30	26	34	29	26	33	29	25	24
8	45	35	28	24	44	34	28	23	33	27	23	32	27	23	31	26	23	21
9	42	32	26	21	41	31	25	21	30	25	21	29	24	21	28	24	20	19
10	39	29	23	19	38	29	23	19	28	23	19	27	22	19	26	22	19	17

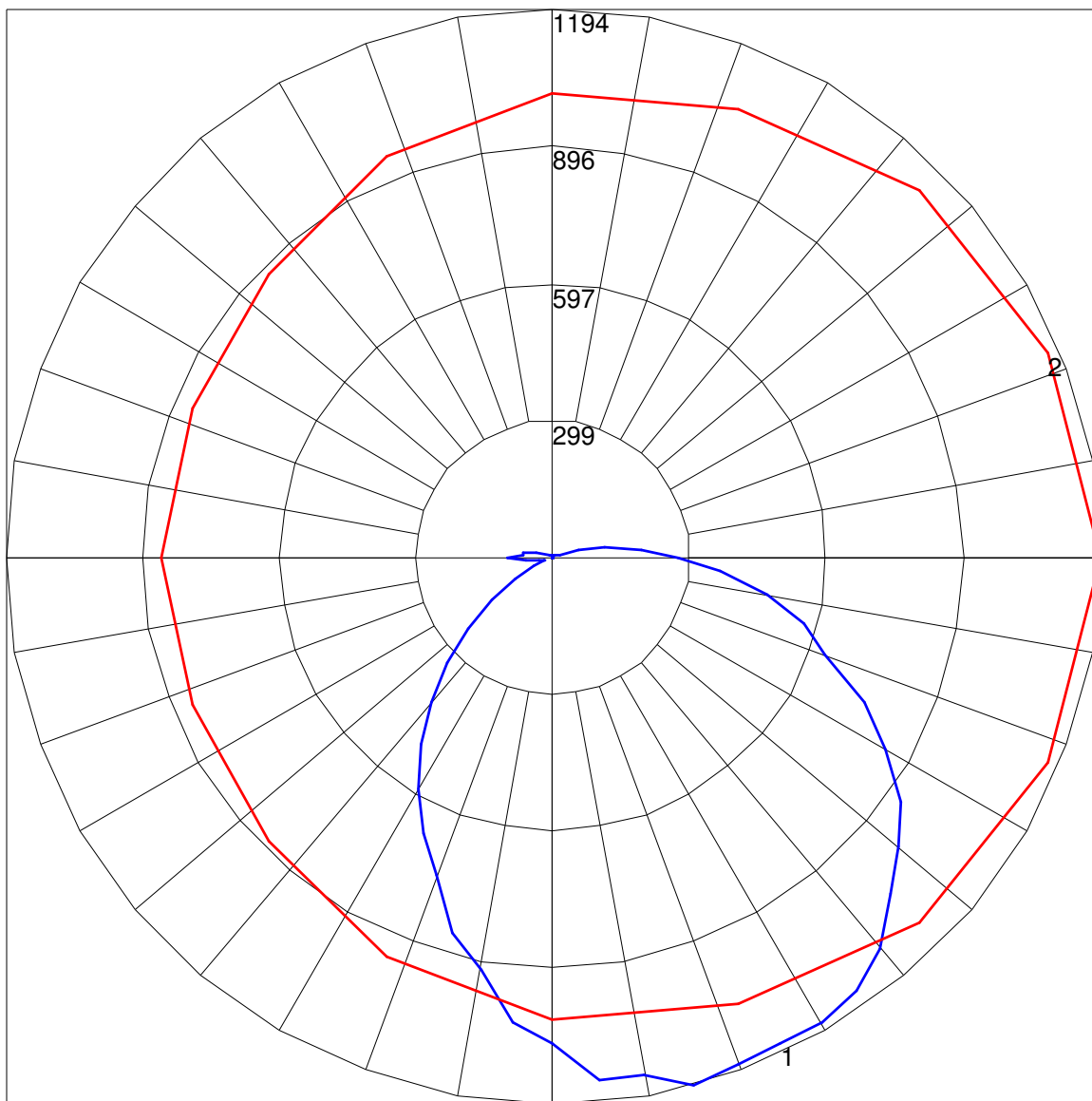
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UGR TABLE - CORRECTED

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	18.7	20.3	19.2	20.7	21.1	14.6	16.2	15.0	16.6	16.9
	3H	20.7	22.2	21.2	22.6	23.0	15.8	17.3	16.2	17.7	18.1
	4H	21.6	23.0	22.1	23.4	23.8	16.2	17.5	16.6	17.9	18.4
	6H	22.4	23.7	22.9	24.1	24.6	16.3	17.6	16.8	18.0	18.5
	8H	22.7	24.0	23.2	24.4	24.9	16.4	17.6	16.8	18.0	18.5
	12H	23.0	24.2	23.5	24.6	25.1	16.4	17.5	16.8	18.0	18.5
4H	2H	19.3	20.7	19.7	21.1	21.5	15.6	16.9	16.0	17.3	17.8
	3H	21.5	22.7	22.0	23.1	23.6	17.0	18.2	17.5	18.7	19.1
	4H	22.6	23.6	23.0	24.1	24.6	17.5	18.6	18.0	19.1	19.6
	6H	23.5	24.5	24.0	25.0	25.5	17.8	18.7	18.3	19.2	19.8
	8H	23.9	24.8	24.4	25.3	25.8	17.8	18.7	18.4	19.2	19.8
	12H	24.3	25.1	24.8	25.6	26.2	17.9	18.7	18.4	19.2	19.7
8H	4H	22.9	23.7	23.4	24.2	24.8	18.3	19.1	18.8	19.6	20.2
	6H	24.0	24.7	24.5	25.3	25.8	18.7	19.5	19.2	20.0	20.5
	8H	24.5	25.2	25.0	25.7	26.3	18.8	19.5	19.4	20.1	20.6
	12H	25.0	25.6	25.6	26.2	26.8	18.9	19.5	19.4	20.0	20.7
12H	4H	22.9	23.7	23.4	24.2	24.7	18.4	19.2	19.0	19.8	20.3
	6H	24.0	24.7	24.6	25.2	25.8	19.0	19.7	19.5	20.2	20.8
	8H	24.6	25.2	25.2	25.8	26.4	19.2	19.8	19.7	20.3	21.0

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 1194.151 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)