



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L130-835-SAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18125.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 31-JAN-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2x4' RECESSED LED LUMINAIRE

[MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN

[LUMCAT] 50G-S24-L130-835-SAF12125-DIM-UNV

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13116
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	101.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7114	7014	6917
55	5870	5675	5501
65	4721	4437	4379
75	3824	3664	3866
85	3821	3821	4508

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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>
0	5906.107	5906.107	5906.107	5906.107	5906.107
5	5847.970	5844.158	5839.393	5836.534	5836.534
10	5742.181	5735.510	5740.275	5742.181	5742.181
15	5507.728	5507.728	5507.728	5514.400	5517.259
20	5302.821	5302.821	5309.492	5319.023	5309.492
25	4855.836	4851.071	4865.367	4873.944	4872.038
30	4473.659	4468.894	4478.425	4478.425	4487.955
35	4024.768	4022.862	4015.238	4013.332	4031.440
40	3561.582	3553.004	3533.943	3518.694	3532.037
45	3124.128	3112.691	3080.287	3052.648	3037.399
50	2569.447	2546.574	2520.841	2477.954	2452.221
55	2091.012	2055.748	2021.438	1969.020	1959.489
60	1618.294	1590.656	1546.815	1505.833	1501.068
65	1238.977	1216.103	1164.638	1149.389	1149.389
70	902.547	889.204	845.363	861.565	863.472
75	614.723	605.193	588.991	609.958	621.395
80	414.581	407.909	407.909	426.017	439.360
85	206.814	200.142	206.814	234.453	243.983
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2113.8	N.A.	16.10
0-30	4362.77	N.A.	33.30
0-40	6874.93	N.A.	52.40
0-60	11041.57	N.A.	84.20
0-80	12884.27	N.A.	98.20
0-90	13115.85	N.A.	100.00
10-90	12561.14	N.A.	95.80
20-40	4761.13	N.A.	36.30
20-50	7117.51	N.A.	54.30
40-70	5350.04	N.A.	40.80
60-80	1842.69	N.A.	14.00
70-80	659.29	N.A.	5.00
80-90	231.58	N.A.	1.80
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	13115.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	554.70
10-20	1559.1
20-30	2248.97
30-40	2512.17
40-50	2356.38
50-60	1810.26
60-70	1183.4
70-80	659.29
80-90	231.58
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	450	450	450	450	440	440	440	440	420	420	420	402	402	402	386	386	386	378
1	414	398	383	369	404	389	376	363	373	362	352	359	349	341	345	338	331	323
2	380	351	327	307	370	344	322	304	331	312	297	319	303	290	307	295	283	276
3	349	312	283	260	340	306	279	258	295	272	253	285	265	249	275	259	245	237
4	322	279	248	224	313	274	245	223	265	240	220	256	234	217	248	229	214	206
5	297	251	219	196	290	247	217	195	239	213	193	232	209	191	225	205	189	181
6	276	228	196	173	269	224	194	172	218	191	171	212	187	169	206	184	168	160
7	257	208	176	154	250	205	175	154	199	172	153	194	170	151	189	167	150	143
8	240	191	160	139	234	188	159	138	183	157	138	179	154	137	174	152	136	129
9	224	176	146	126	219	174	145	125	169	143	125	165	141	124	162	140	124	117
10	211	163	134	115	206	161	133	115	157	132	114	154	130	114	150	129	113	107

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UGR TABLE - CORRECTED

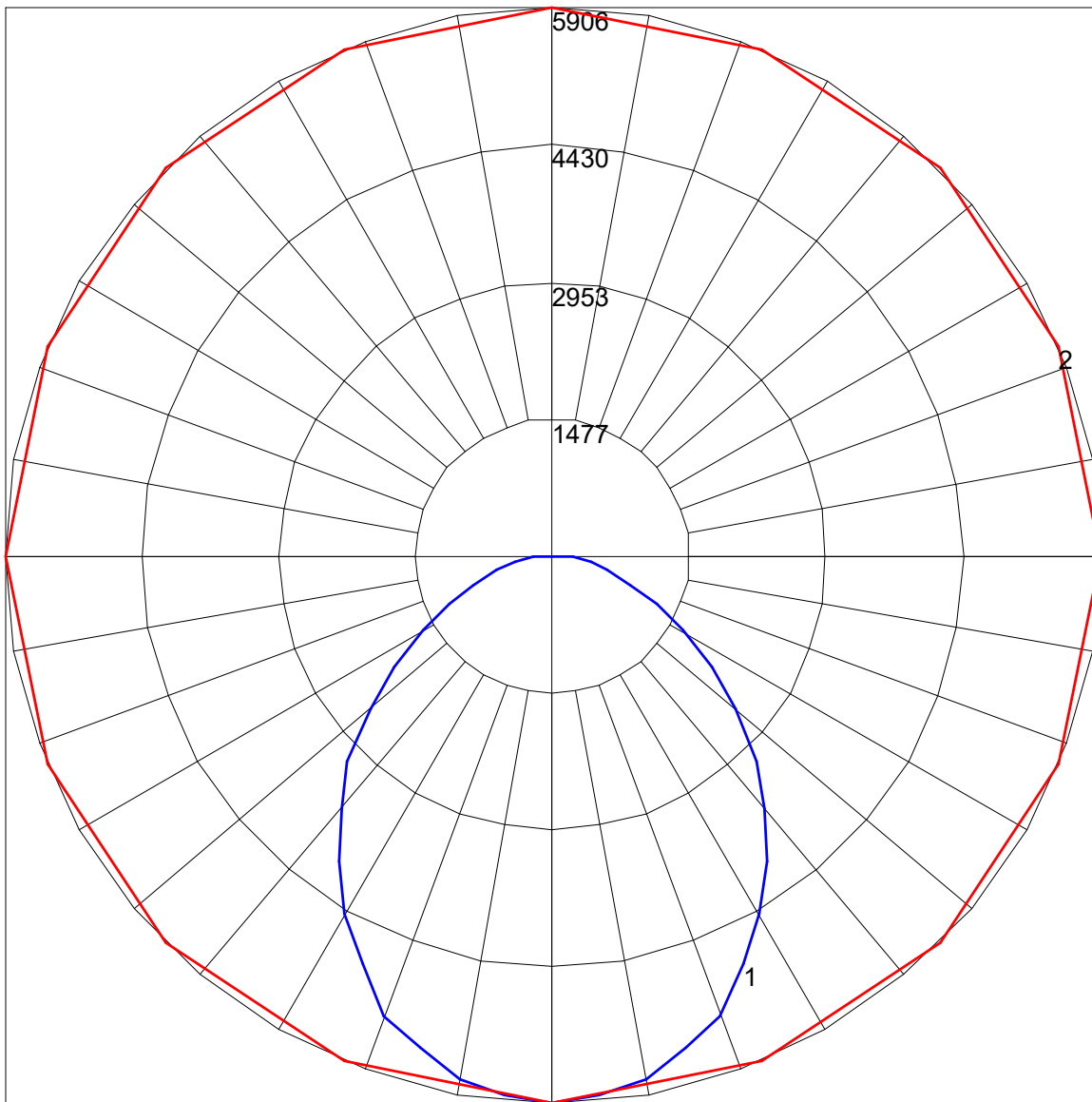
Reflectances

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	13.0	14.5	13.3	14.8	15.1	12.6	14.1	13.0	14.4	14.8
	3H	14.4	15.8	14.8	16.1	16.5	14.0	15.4	14.4	15.8	16.1
	4H	14.9	16.2	15.3	16.6	17.0	14.6	15.9	15.0	16.3	16.7
	6H	15.4	16.6	15.8	17.0	17.4	15.2	16.4	15.6	16.7	17.1
	8H	15.6	16.7	16.0	17.1	17.5	15.4	16.6	15.8	16.9	17.3
	12H	15.7	16.8	16.1	17.2	17.6	15.6	16.7	16.0	17.1	17.5
4H	2H	13.4	14.7	13.8	15.0	15.4	13.1	14.4	13.5	14.7	15.1
	3H	15.0	16.1	15.5	16.5	16.9	14.8	15.9	15.2	16.3	16.7
	4H	15.7	16.7	16.1	17.1	17.5	15.5	16.5	15.9	16.9	17.3
	6H	16.3	17.2	16.8	17.6	18.1	16.2	17.0	16.7	17.5	17.9
	8H	16.6	17.4	17.0	17.8	18.3	16.5	17.3	17.0	17.7	18.2
	12H	16.8	17.5	17.3	18.0	18.4	16.8	17.5	17.3	18.0	18.4
8H	4H	16.0	16.8	16.4	17.2	17.7	15.8	16.6	16.2	17.0	17.5
	6H	16.7	17.4	17.2	17.9	18.3	16.6	17.3	17.1	17.8	18.2
	8H	17.0	17.6	17.6	18.2	18.6	17.0	17.6	17.5	18.1	18.6
	12H	17.3	17.9	17.8	18.4	18.9	17.4	17.9	17.9	18.4	19.0
12H	4H	16.0	16.7	16.5	17.2	17.7	15.8	16.5	16.3	17.0	17.5
	6H	16.8	17.4	17.3	17.9	18.4	16.7	17.3	17.2	17.8	18.3
	8H	17.2	17.7	17.7	18.2	18.8	17.1	17.7	17.7	18.2	18.7

Maximum UGR = 19.0

POLAR GRAPH



Maximum Candela = 5906.107 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)