



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L90-835-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-L90-835-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	9106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	67.1
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	4939	4870	4802
55	4075	3940	3819
65	3277	3081	3040
75	2655	2544	2684
85	2653	2653	3130

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4100.412	4100.412	4100.412	4100.412	4100.412
5	4060.050	4057.403	4054.095	4052.110	4052.110
10	3986.604	3981.972	3985.281	3986.604	3986.604
15	3823.831	3823.831	3823.831	3828.463	3830.448
20	3681.571	3681.571	3686.203	3692.819	3686.203
25	3371.244	3367.936	3377.861	3383.816	3382.493
30	3105.912	3102.603	3109.220	3109.220	3115.837
35	2794.262	2792.939	2787.645	2786.322	2798.894
40	2472.687	2466.732	2453.498	2442.911	2452.175
45	2168.977	2161.037	2138.540	2119.351	2108.765
50	1783.881	1768.001	1750.136	1720.360	1702.495
55	1451.719	1427.237	1403.417	1367.025	1360.408
60	1123.528	1104.339	1073.902	1045.450	1042.141
65	860.180	844.300	808.569	797.982	797.982
70	626.608	617.345	586.908	598.156	599.479
75	426.782	420.165	408.916	423.473	431.413
80	287.829	283.198	283.198	295.770	305.033
85	143.584	138.952	143.584	162.773	169.389
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1467.54	N.A.	16.10
0-30	3028.92	N.A.	33.30
0-40	4773.04	N.A.	52.40
0-60	7665.79	N.A.	84.20
0-80	8945.11	N.A.	98.20
0-90	9105.89	N.A.	100.00
10-90	8720.78	N.A.	95.80
20-40	3305.5	N.A.	36.30
20-50	4941.45	N.A.	54.30
40-70	3714.36	N.A.	40.80
60-80	1279.32	N.A.	14.00
70-80	457.72	N.A.	5.00
80-90	160.78	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	9105.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	385.11
10-20	1082.43
20-30	1561.38
30-40	1744.11
40-50	1635.95
50-60	1256.81
60-70	821.60
70-80	457.72
80-90	160.78
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	312	312	312	312	305	305	305	305	292	292	292	279	279	279	268	268	268	262
1	288	276	266	256	281	270	261	252	259	251	244	249	243	237	240	235	230	224
2	264	244	227	213	257	239	224	211	230	217	206	221	211	201	213	205	197	191
3	242	217	197	181	236	212	194	179	205	189	176	198	184	173	191	180	170	165
4	223	194	172	156	217	190	170	155	184	166	152	178	163	150	172	159	148	143
5	206	175	152	136	201	172	151	135	166	148	134	161	145	132	156	142	131	126
6	191	158	136	120	187	156	135	119	151	132	118	147	130	117	143	128	116	111
7	178	144	122	107	174	142	121	107	138	120	106	135	118	105	131	116	104	99
8	166	132	111	96	162	131	110	96	127	109	95	124	107	95	121	106	94	90
9	156	122	101	87	152	120	101	87	118	99	87	115	98	86	112	97	86	81
10	146	113	93	80	143	112	92	80	109	91	79	107	90	79	104	89	79	74

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UGR TABLE - CORRECTED

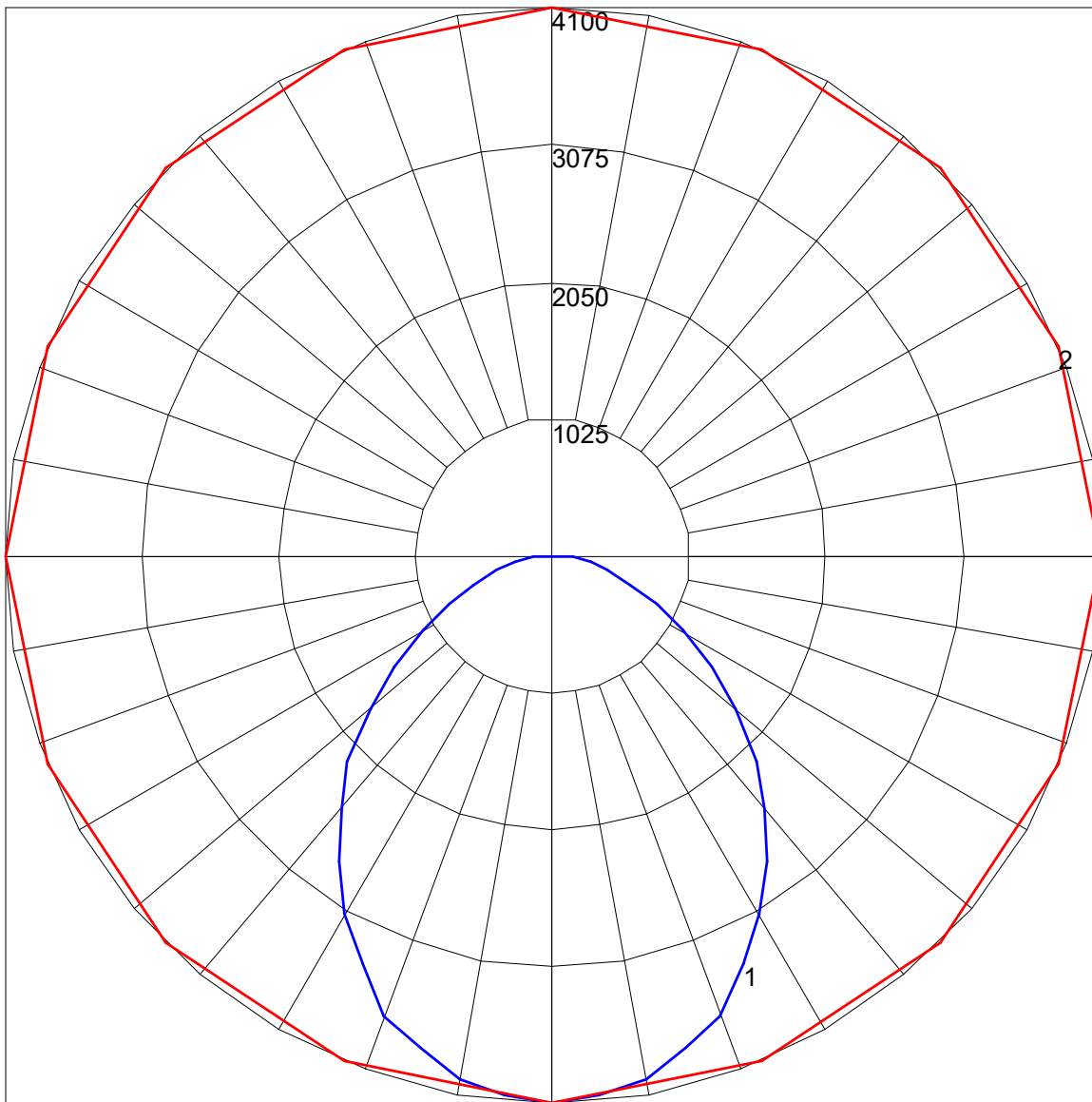
Reflectances

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 = 4100.412 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.)