



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L59-835-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-L59-835-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	6231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	48
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	3380	3332	3286
55	2789	2696	2613
65	2243	2108	2080
75	1817	1741	1837
85	1815	1815	2141

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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	2805.806	2805.806	2805.806	2805.806	2805.806
5	2778.187	2776.376	2774.112	2772.754	2772.754
10	2727.930	2724.760	2727.024	2727.930	2727.930
15	2616.548	2616.548	2616.548	2619.718	2621.076
20	2519.203	2519.203	2522.373	2526.900	2522.373
25	2306.855	2304.591	2311.383	2315.458	2314.552
30	2125.295	2123.031	2127.559	2127.559	2132.086
35	1912.041	1911.135	1907.513	1906.608	1915.210
40	1691.995	1687.921	1678.865	1671.621	1677.960
45	1484.175	1478.742	1463.347	1450.217	1442.973
50	1220.664	1209.797	1197.572	1177.198	1164.973
55	993.374	976.621	960.322	935.419	930.892
60	768.801	755.670	734.843	715.374	713.110
65	588.599	577.732	553.283	546.039	546.039
70	428.772	422.433	401.606	409.303	410.208
75	292.036	287.508	279.811	289.772	295.205
80	196.954	193.785	193.785	202.387	208.726
85	98.251	95.081	98.251	111.381	115.909
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1004.2	N.A.	16.10
0-30	2072.61	N.A.	33.30
0-40	3266.06	N.A.	52.40
0-60	5245.5	N.A.	84.20
0-80	6120.91	N.A.	98.20
0-90	6230.93	N.A.	100.00
10-90	5967.4	N.A.	95.80
20-40	2261.87	N.A.	36.30
20-50	3381.31	N.A.	54.30
40-70	2541.64	N.A.	40.80
60-80	875.41	N.A.	14.00
70-80	313.21	N.A.	5.00
80-90	110.02	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	6230.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	263.52
10-20	740.68
20-30	1068.41
30-40	1193.45
40-50	1119.44
50-60	860.00
60-70	562.20
70-80	313.21
80-90	110.02
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	214	214	214	214	209	209	209	209	200	200	200	191	191	191	183	183	183	180
1	197	189	182	175	192	185	178	173	177	172	167	170	166	162	164	160	157	154
2	181	167	155	146	176	163	153	144	157	148	141	151	144	138	146	140	135	131
3	166	148	135	124	162	145	133	123	140	129	120	135	126	118	131	123	116	113
4	153	133	118	106	149	130	116	106	126	114	104	122	111	103	118	109	102	98
5	141	119	104	93	138	117	103	92	114	101	91	110	99	91	107	97	90	86
6	131	108	93	82	128	107	92	82	103	91	81	100	89	80	98	88	80	76
7	122	99	84	73	119	97	83	73	95	82	72	92	81	72	90	79	71	68
8	114	91	76	66	111	89	75	66	87	74	65	85	73	65	83	72	65	61
9	107	83	69	60	104	82	69	60	80	68	59	79	67	59	77	66	59	56
10	100	77	64	55	98	76	63	54	75	63	54	73	62	54	71	61	54	51

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UGR TABLE - CORRECTED

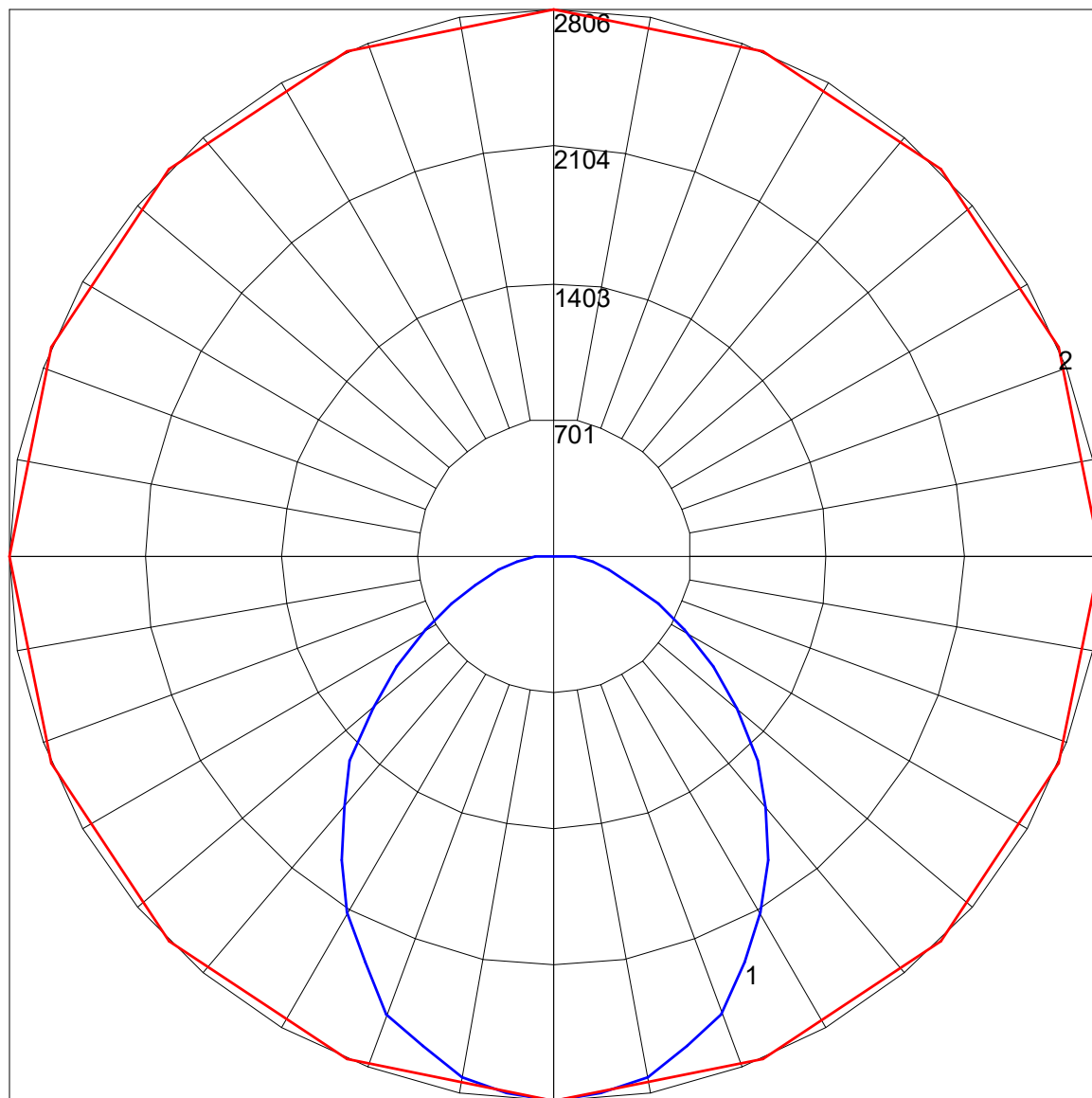
Reflectances

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 = 2805.806 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.)