



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L33-835-SAF12125-(L27)-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] 07-02-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836

[LUMINAIRE] 2x4' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 50G-S24-L33-835-SAF12125-(L27)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,CLASSROOM, COMMERCIAL, EDUCATIONAL,OFFICE, DIRECT

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2847
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	21.6
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	1544	1523	1501
55	1274	1232	1194
65	1025	963	951
75	830	795	839
85	829	829	978

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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	1281.998	1281.998	1281.998	1281.998	1281.998
5	1269.379	1268.551	1267.517	1266.896	1266.896
10	1246.416	1244.968	1246.002	1246.416	1246.416
15	1195.525	1195.525	1195.525	1196.973	1197.594
20	1151.047	1151.047	1152.495	1154.564	1152.495
25	1054.023	1052.989	1056.092	1057.954	1057.540
30	971.067	970.032	972.101	972.101	974.170
35	873.629	873.215	871.560	871.146	875.077
40	773.088	771.226	767.089	763.779	766.675
45	678.133	675.650	668.617	662.617	659.307
50	557.732	552.767	547.182	537.872	532.287
55	453.882	446.227	438.780	427.402	425.333
60	351.272	345.273	335.756	326.861	325.827
65	268.936	263.971	252.800	249.490	249.490
70	195.910	193.013	183.497	187.014	187.428
75	133.434	131.365	127.848	132.399	134.882
80	89.990	88.542	88.542	92.473	95.369
85	44.892	43.444	44.892	50.891	52.960
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 50G-S24-L33-835-SAF12125-(L27)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	458.83	N.A.	16.10
0-30	947.00	N.A.	33.30
0-40	1492.29	N.A.	52.40
0-60	2396.72	N.A.	84.20
0-80	2796.7	N.A.	98.20
0-90	2846.97	N.A.	100.00
10-90	2726.56	N.A.	95.80
20-40	1033.47	N.A.	36.30
20-50	1544.95	N.A.	54.30
40-70	1161.3	N.A.	40.80
60-80	399.98	N.A.	14.00
70-80	143.11	N.A.	5.00
80-90	50.27	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	2846.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.41
10-20	338.42
20-30	488.17
30-40	545.30
40-50	511.48
50-60	392.94
60-70	256.87
70-80	143.11
80-90	50.27
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	54
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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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

X=2H	Y=2H	12.3	13.8	12.6	14.1	14.4	11.9	13.4	12.3	13.7	14.1
	3H	13.7	15.1	14.1	15.4	15.8	13.3	14.7	13.7	15.1	15.4
	4H	14.2	15.5	14.6	15.9	16.3	13.9	15.2	14.3	15.6	16.0
	6H	14.7	15.9	15.1	16.3	16.7	14.5	15.7	14.9	16.0	16.4
	8H	14.9	16.0	15.3	16.4	16.8	14.7	15.9	15.1	16.2	16.6
	12H	15.0	16.1	15.4	16.5	16.9	14.9	16.0	15.3	16.4	16.8

UGR Viewed Endwise

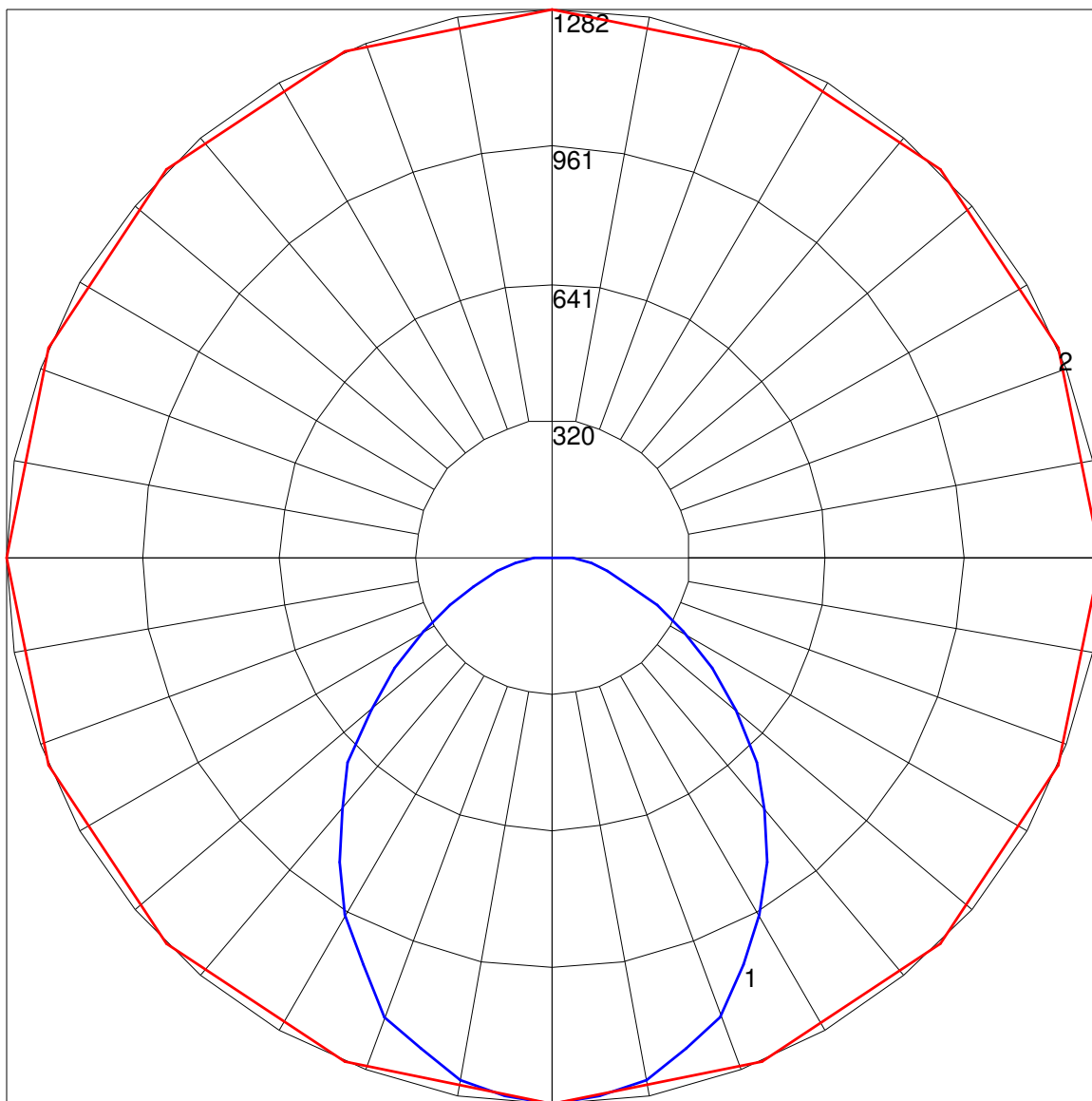
4H	2H	12.7	14.0	13.1	14.3	14.7	12.4	13.7	12.8	14.0	14.4
	3H	14.3	15.4	14.8	15.8	16.2	14.1	15.2	14.5	15.6	16.0
	4H	15.0	16.0	15.4	16.4	16.8	14.8	15.8	15.2	16.2	16.6
	6H	15.6	16.5	16.1	16.9	17.4	15.5	16.3	16.0	16.8	17.2
	8H	15.9	16.7	16.3	17.1	17.6	15.8	16.6	16.3	17.0	17.5
	12H	16.1	16.8	16.6	17.3	17.7	16.1	16.8	16.6	17.3	17.7

8H	4H	15.3	16.1	15.7	16.5	17.0	15.1	15.9	15.5	16.3	16.8
	6H	16.0	16.7	16.5	17.2	17.6	15.9	16.6	16.4	17.1	17.5
	8H	16.3	16.9	16.9	17.5	17.9	16.3	16.9	16.8	17.4	17.9
	12H	16.6	17.2	17.1	17.7	18.2	16.7	17.2	17.2	17.7	18.3

12H	4H	15.3	16.0	15.8	16.5	17.0	15.1	15.8	15.6	16.3	16.8
	6H	16.1	16.7	16.6	17.2	17.7	16.0	16.6	16.5	17.1	17.6
	8H	16.5	17.0	17.0	17.5	18.1	16.4	17.0	17.0	17.5	18.0

Maximum UGR = 18.3

POLAR GRAPH



Maximum Candela = 1281.998 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.)