



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-3-L26-835-SWF-AF125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17249.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10-AUG-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] LL6G-3-L26-835-SWF-AF125-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE]TYPE]LED

[_SEARCH_APPLICATION]INDOOR,OFFICE,CLASSROOM,ARCHITECTURAL,DIRECT,LINEAR

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2636
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	23.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.84 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10215	9192	8332
55	8596	7593	6805
65	7253	6397	5736
75	5874	5112	4635
85	4903	4243	3960

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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	1284.358	1284.358	1284.358	1284.358	1284.358
5	1276.883	1276.135	1273.892	1272.397	1272.397
10	1243.241	1239.503	1232.775	1228.289	1224.551
15	1189.415	1184.181	1171.472	1162.501	1156.521
20	1136.336	1127.365	1105.685	1084.004	1074.286
25	1030.926	1019.712	993.546	965.138	954.672
30	947.196	931.496	894.117	858.233	844.028
35	852.252	832.814	793.192	755.065	737.123
40	743.851	724.414	683.297	641.432	627.227
45	657.131	635.451	591.343	550.973	536.022
50	547.235	528.546	487.428	452.292	438.087
55	448.554	432.107	396.222	367.066	355.105
60	356.600	342.396	314.735	290.065	281.841
65	278.851	269.880	245.957	226.520	220.539
70	204.839	196.616	178.674	166.712	161.479
75	138.304	132.323	120.362	113.634	109.148
80	82.982	79.992	73.264	68.031	66.535
85	38.875	36.632	33.642	32.894	31.399
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	450.82	N.A.	17.10
0-30	909.79	N.A.	34.50
0-40	1405.00	N.A.	53.30
0-60	2219.39	N.A.	84.20
0-80	2597.35	N.A.	98.50
0-90	2636.32	N.A.	100.00
10-90	2516.02	N.A.	95.40
20-40	954.18	N.A.	36.20
20-50	1409.68	N.A.	53.50
40-70	1060.35	N.A.	40.20
60-80	377.95	N.A.	14.30
70-80	131.99	N.A.	5.00
80-90	38.97	N.A.	1.50
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	2636.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.30
10-20	330.52
20-30	458.97
30-40	495.22
40-50	455.50
50-60	358.90
60-70	245.96
70-80	131.99
80-90	38.97
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	76	73	70	67	74	71	69	66	68	66	64	65	64	62	63	62	60	59
2	69	64	60	56	68	63	59	56	60	57	54	58	55	53	56	54	52	50
3	64	57	52	48	62	56	51	47	54	50	46	52	49	46	50	47	45	43
4	59	51	45	41	57	50	45	41	48	44	40	47	43	40	45	42	39	38
5	54	46	40	36	53	45	40	36	44	39	35	43	38	35	41	38	35	33
6	50	42	36	32	49	41	36	32	40	35	31	39	35	31	38	34	31	30
7	47	38	32	28	46	38	32	28	37	32	28	36	31	28	35	31	28	27
8	44	35	30	26	43	35	29	26	34	29	25	33	29	25	32	28	25	24
9	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20

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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	22.0	23.5	22.3	23.8	24.1	20.7	22.3	21.1	22.6	22.9
	3H	23.5	24.9	23.9	25.2	25.6	22.2	23.6	22.6	23.9	24.3
	4H	24.1	25.4	24.5	25.7	26.1	22.8	24.1	23.2	24.4	24.8
	6H	24.5	25.7	24.9	26.1	26.5	23.2	24.4	23.6	24.7	25.1
	8H	24.7	25.8	25.1	26.2	26.6	23.3	24.4	23.7	24.8	25.2
	12H	24.7	25.8	25.2	26.2	26.7	23.4	24.5	23.8	24.9	25.3

UGR Viewed Endwise

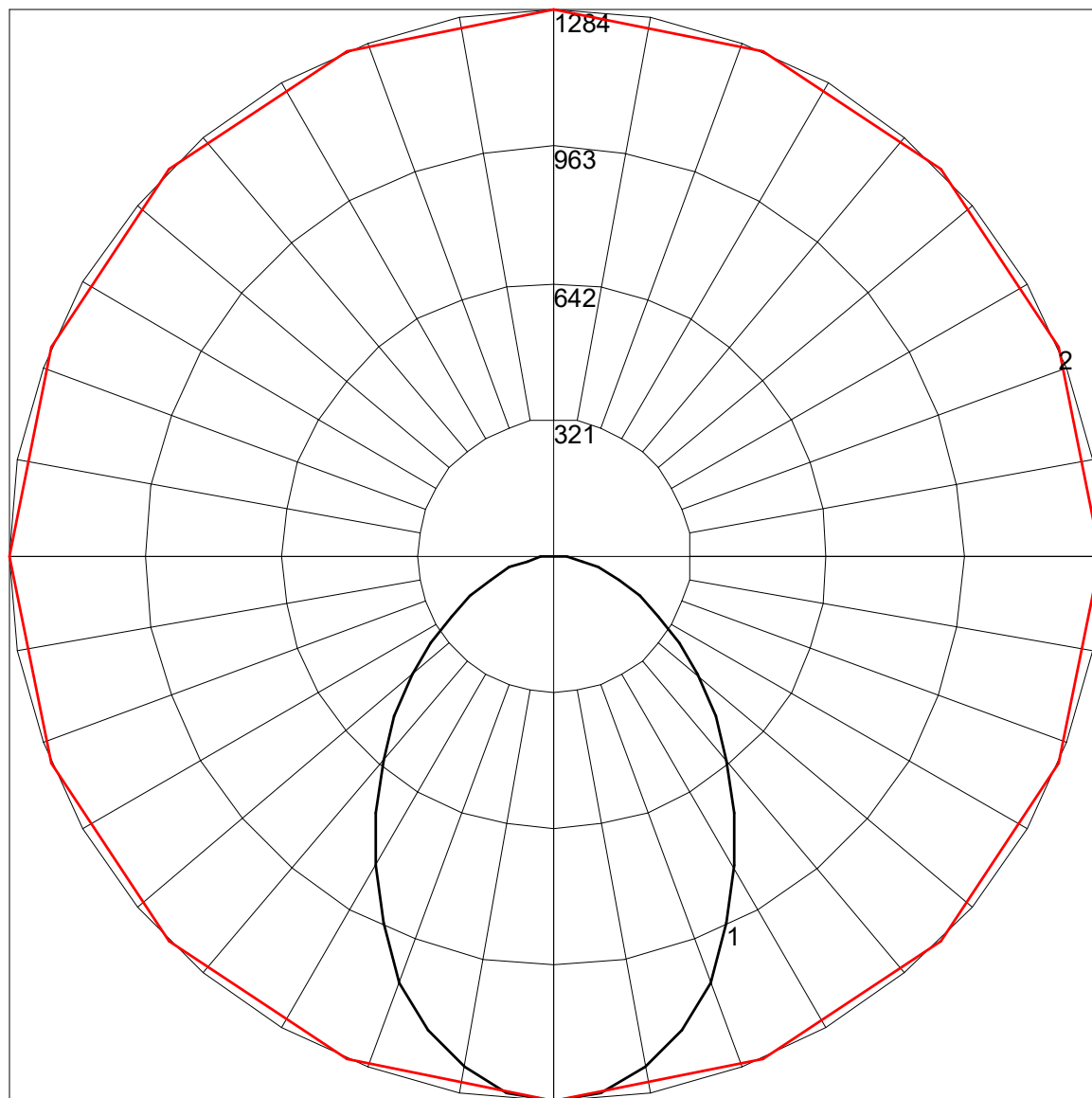
4H	2H	22.4	23.7	22.8	24.0	24.4	21.4	22.7	21.8	23.0	23.4
	3H	24.2	25.2	24.6	25.6	26.0	23.1	24.2	23.5	24.6	25.0
	4H	24.8	25.8	25.3	26.2	26.7	23.7	24.7	24.2	25.1	25.6
	6H	25.4	26.2	25.9	26.7	27.1	24.2	25.1	24.7	25.5	26.0
	8H	25.6	26.4	26.1	26.8	27.3	24.4	25.2	24.9	25.7	26.1
	12H	25.8	26.5	26.2	26.9	27.4	24.6	25.3	25.1	25.8	26.2

8H	4H	25.0	25.8	25.5	26.3	26.7	24.0	24.8	24.5	25.3	25.7
	6H	25.7	26.4	26.2	26.9	27.3	24.7	25.3	25.2	25.8	26.3
	8H	26.0	26.6	26.5	27.1	27.6	24.9	25.5	25.4	26.0	26.5
	12H	26.2	26.7	26.7	27.2	27.8	25.2	25.7	25.7	26.2	26.7

12H	4H	25.1	25.8	25.5	26.2	26.7	24.1	24.8	24.6	25.3	25.7
	6H	25.7	26.3	26.3	26.8	27.3	24.7	25.3	25.3	25.8	26.3
	8H	26.1	26.6	26.6	27.1	27.6	25.1	25.6	25.6	26.1	26.6

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 1284.358 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)