



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-2-L16-835-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] 2' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] LL6G-2-L16-835-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	1652
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	16.3
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)	1.84 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	9874	8885	8054
55	8309	7339	6578
65	7010	6183	5544
75	5677	4941	4481
85	4739	4101	3828

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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>
<b>0</b>	804.917	804.917	804.917	804.917	804.917
<b>5</b>	800.231	799.763	798.357	797.420	797.420
<b>10</b>	779.148	776.805	772.589	769.778	767.435
<b>15</b>	745.415	742.135	734.170	728.548	724.800
<b>20</b>	712.150	706.527	692.940	679.353	673.263
<b>25</b>	646.088	639.061	622.662	604.859	598.299
<b>30</b>	593.614	583.775	560.349	537.860	528.959
<b>35</b>	534.112	521.931	497.099	473.205	461.960
<b>40</b>	466.177	453.995	428.227	401.990	393.088
<b>45</b>	411.829	398.242	370.599	345.299	335.928
<b>50</b>	342.956	331.243	305.475	283.454	274.552
<b>55</b>	281.112	270.804	248.315	230.043	222.547
<b>60</b>	223.484	214.582	197.247	181.786	176.632
<b>65</b>	174.758	169.136	154.143	141.961	138.213
<b>70</b>	128.374	123.221	111.976	104.480	101.200
<b>75</b>	86.676	82.928	75.432	71.215	68.404
<b>80</b>	52.006	50.132	45.915	42.635	41.698
<b>85</b>	24.363	22.957	21.083	20.615	19.678
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	282.53	N.A.	17.10
0-30	570.17	N.A.	34.50
0-40	880.52	N.A.	53.30
0-60	1390.91	N.A.	84.20
0-80	1627.78	N.A.	98.50
0-90	1652.2	N.A.	100.00
10-90	1576.81	N.A.	95.40
20-40	597.99	N.A.	36.20
20-50	883.46	N.A.	53.50
40-70	664.53	N.A.	40.20
60-80	236.87	N.A.	14.30
70-80	82.72	N.A.	5.00
80-90	24.42	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	1652.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.39
10-20	207.14
20-30	287.64
30-40	310.36
40-50	285.46
50-60	224.92
60-70	154.15
70-80	82.72
80-90	24.42
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	58	58	58	58	56	56	56	56	54	54	54	52	52	52	49	49	49	48
1	53	51	49	47	52	50	48	47	48	47	45	46	45	44	44	43	43	42
2	49	45	42	40	48	44	41	39	43	40	38	41	39	37	40	38	36	35
3	45	40	36	34	44	39	36	33	38	35	33	37	34	32	35	33	32	31
4	41	36	32	29	40	35	32	29	34	31	28	33	30	28	32	30	28	27
5	38	32	28	25	37	32	28	25	31	28	25	30	27	25	29	26	24	23
6	36	29	25	22	35	29	25	22	28	25	22	27	24	22	27	24	22	21
7	33	27	23	20	32	26	23	20	26	22	20	25	22	20	24	22	20	19
8	31	25	21	18	30	24	21	18	24	20	18	23	20	18	23	20	18	17
9	29	23	19	16	28	23	19	16	22	19	16	21	18	16	21	18	16	15
10	27	21	17	15	27	21	17	15	20	17	15	20	17	15	20	17	15	14

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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	19.0	20.5	19.4	20.9	21.2	17.8	19.3	18.1	19.6	19.9
	3H	20.6	22.0	20.9	22.3	22.6	19.3	20.7	19.7	21.0	21.3
	4H	21.1	22.4	21.5	22.8	23.2	19.8	21.1	20.2	21.5	21.8
	6H	21.6	22.7	22.0	23.1	23.5	20.2	21.4	20.6	21.8	22.2
	8H	21.7	22.8	22.1	23.2	23.6	20.4	21.5	20.8	21.9	22.3
	12H	21.8	22.9	22.2	23.3	23.7	20.4	21.5	20.9	21.9	22.4

UGR Viewed Endwise

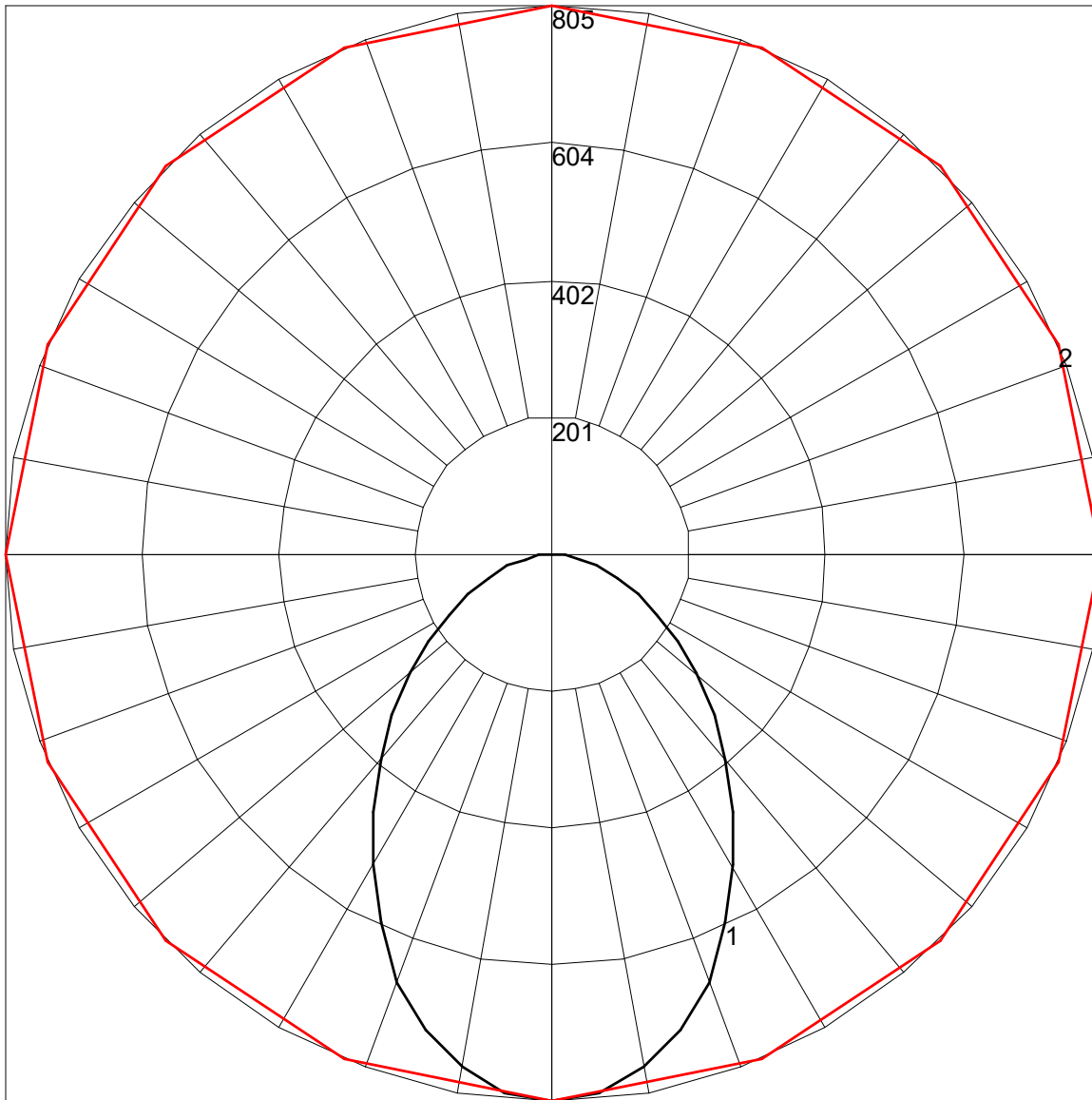
4H	2H	19.4	20.7	19.8	21.1	21.4	18.4	19.7	18.8	20.1	20.5
	3H	21.2	22.3	21.6	22.7	23.1	20.1	21.2	20.5	21.6	22.0
	4H	21.9	22.9	22.3	23.3	23.7	20.8	21.7	21.2	22.2	22.6
	6H	22.4	23.3	22.9	23.7	24.2	21.3	22.1	21.7	22.6	23.0
	8H	22.6	23.4	23.1	23.9	24.3	21.5	22.3	21.9	22.7	23.2
	12H	22.8	23.5	23.3	24.0	24.5	21.6	22.3	22.1	22.8	23.3

8H	4H	22.1	22.9	22.6	23.3	23.8	21.1	21.9	21.5	22.3	22.8
	6H	22.7	23.4	23.2	23.9	24.4	21.7	22.4	22.2	22.9	23.3
	8H	23.0	23.6	23.5	24.1	24.6	22.0	22.6	22.5	23.1	23.6
	12H	23.3	23.8	23.8	24.3	24.8	22.2	22.7	22.7	23.2	23.8

12H	4H	22.1	22.8	22.6	23.3	23.8	21.1	21.8	21.6	22.3	22.8
	6H	22.8	23.4	23.3	23.8	24.4	21.8	22.4	22.3	22.8	23.4
	8H	23.1	23.6	23.6	24.1	24.7	22.1	22.6	22.6	23.1	23.7

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 804.917 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.)