



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-2-L38-835-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-L38-835-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	3830
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	34.3
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	22891	20599	18672
55	19263	17016	15250
65	16253	14335	12854
75	13162	11455	10388
85	10987	9508	8874

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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	1866.121	1866.121	1866.121	1866.121	1866.121
5	1855.259	1854.172	1850.914	1848.741	1848.741
10	1806.379	1800.948	1791.172	1784.655	1779.224
15	1728.171	1720.568	1702.102	1689.068	1680.378
20	1651.050	1638.015	1606.515	1575.015	1560.894
25	1497.893	1481.600	1443.582	1402.306	1387.099
30	1376.237	1353.426	1299.116	1246.977	1226.339
35	1238.287	1210.046	1152.476	1097.079	1071.010
40	1080.786	1052.544	992.802	931.974	911.336
45	954.785	923.284	859.198	800.542	778.818
50	795.111	767.955	708.214	657.161	636.523
55	651.730	627.833	575.695	533.333	515.953
60	518.126	497.487	457.297	421.452	409.504
65	405.159	392.124	357.365	329.124	320.434
70	297.623	285.675	259.606	242.226	234.623
75	200.950	192.260	174.881	165.105	158.588
80	120.570	116.225	106.449	98.846	96.673
85	56.483	53.225	48.880	47.794	45.621
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	655.02	N.A.	17.10
0-30	1321.88	N.A.	34.50
0-40	2041.41	N.A.	53.30
0-60	3224.69	N.A.	84.20
0-80	3773.84	N.A.	98.50
0-90	3830.47	N.A.	100.00
10-90	3655.67	N.A.	95.40
20-40	1386.39	N.A.	36.20
20-50	2048.21	N.A.	53.50
40-70	1540.65	N.A.	40.20
60-80	549.15	N.A.	14.30
70-80	191.78	N.A.	5.00
80-90	56.63	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	3830.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	174.79
10-20	480.23
20-30	666.86
30-40	719.53
40-50	661.82
50-60	521.46
60-70	357.37
70-80	191.78
80-90	56.63
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	276	276	276	276	270	270	270	270	258	258	258	247	247	247	237	237	237	232
1	254	244	235	227	248	239	231	223	229	223	216	220	215	210	212	208	204	199
2	234	216	201	189	228	212	198	187	204	192	183	196	187	179	189	182	175	170
3	215	192	175	161	209	188	172	159	182	168	156	175	164	154	170	160	151	146
4	198	172	153	139	193	169	151	138	163	148	136	158	145	134	153	142	132	127
5	183	155	136	121	178	153	134	121	148	132	119	143	129	118	139	127	117	112
6	170	141	121	107	166	139	120	107	135	118	106	131	116	105	127	114	104	100
7	158	129	109	96	154	127	109	96	123	107	95	120	105	94	117	104	94	89
8	148	118	99	87	144	117	99	86	114	97	86	111	96	85	108	95	85	81
9	139	109	91	79	136	108	90	78	105	89	78	103	88	78	100	87	77	73
10	130	101	84	72	128	100	83	72	98	82	72	96	81	71	94	80	71	67

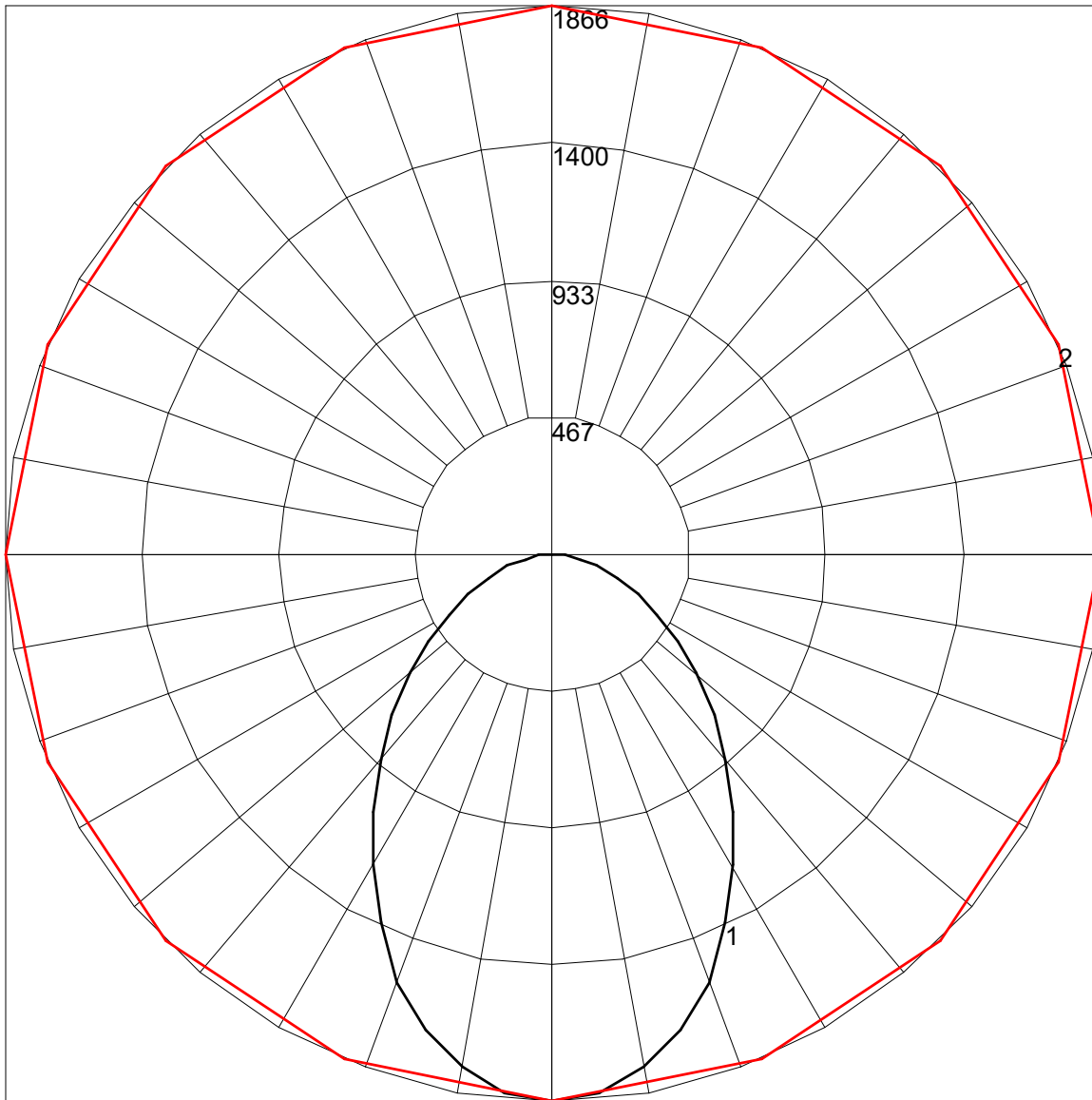
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UGR TABLE - CORRECTED

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	19.0	20.5	19.3	20.8	21.1	17.7	19.3	18.1	19.6	19.9
	3H	20.5	21.9	20.9	22.2	22.6	19.2	20.6	19.6	20.9	21.3
	4H	21.1	22.4	21.5	22.7	23.1	19.8	21.1	20.2	21.4	21.8
	6H	21.5	22.7	21.9	23.1	23.5	20.2	21.4	20.6	21.7	22.1
	8H	21.7	22.8	22.1	23.2	23.6	20.3	21.4	20.7	21.8	22.2
	12H	21.7	22.8	22.2	23.2	23.7	20.4	21.5	20.8	21.9	22.3
4H	2H	19.4	20.7	19.8	21.0	21.4	18.4	19.7	18.8	20.0	20.4
	3H	21.2	22.2	21.6	22.6	23.0	20.1	21.2	20.5	21.6	22.0
	4H	21.8	22.8	22.3	23.2	23.7	20.7	21.7	21.2	22.1	22.6
	6H	22.4	23.2	22.9	23.7	24.1	21.2	22.1	21.7	22.5	23.0
	8H	22.6	23.4	23.1	23.8	24.3	21.4	22.2	21.9	22.7	23.1
	12H	22.8	23.5	23.2	23.9	24.4	21.6	22.3	22.1	22.8	23.2
8H	4H	22.0	22.8	22.5	23.3	23.7	21.0	21.8	21.5	22.3	22.7
	6H	22.7	23.4	23.2	23.9	24.3	21.7	22.3	22.2	22.8	23.3
	8H	23.0	23.6	23.5	24.1	24.6	21.9	22.5	22.4	23.0	23.5
	12H	23.2	23.7	23.7	24.2	24.8	22.2	22.7	22.7	23.2	23.7
12H	4H	22.1	22.8	22.5	23.2	23.7	21.1	21.8	21.6	22.3	22.7
	6H	22.7	23.3	23.3	23.8	24.3	21.7	22.3	22.3	22.8	23.3
	8H	23.1	23.6	23.6	24.1	24.6	22.1	22.6	22.6	23.1	23.6

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 1866.121 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.)