



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-3-L50-835-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

[ISSUE DATE] 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-L50-835-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	4983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	47.8
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	19306	17374	15748
55	16246	14351	12862
65	13707	12091	10841
75	11101	9661	8761
85	9266	8019	7484

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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	2427.419	2427.419	2427.419	2427.419	2427.419
5	2413.290	2411.877	2407.638	2404.812	2404.812
10	2349.708	2342.643	2329.927	2321.449	2314.384
15	2247.976	2238.086	2214.066	2197.111	2185.807
20	2147.658	2130.703	2089.728	2048.753	2030.385
25	1948.435	1927.241	1877.788	1824.096	1804.315
30	1790.186	1760.515	1689.868	1622.047	1595.201
35	1610.744	1574.007	1499.122	1427.062	1393.152
40	1405.868	1369.132	1291.421	1212.297	1185.451
45	1241.968	1200.993	1117.630	1041.332	1013.073
50	1034.267	998.944	921.232	854.824	827.979
55	847.760	816.675	748.854	693.750	671.143
60	673.969	647.123	594.845	548.218	532.676
65	527.024	510.069	464.855	428.119	416.815
70	387.144	371.601	337.691	315.084	305.194
75	261.393	250.089	227.482	214.766	206.288
80	156.836	151.184	138.467	128.577	125.751
85	73.473	69.234	63.582	62.169	59.343
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	852.04	N.A.	17.10
0-30	1719.48	N.A.	34.50
0-40	2655.43	N.A.	53.30
0-60	4194.62	N.A.	84.20
0-80	4908.95	N.A.	98.50
0-90	4982.61	N.A.	100.00
10-90	4755.24	N.A.	95.40
20-40	1803.39	N.A.	36.20
20-50	2664.27	N.A.	53.50
40-70	2004.05	N.A.	40.20
60-80	714.33	N.A.	14.30
70-80	249.46	N.A.	5.00
80-90	73.66	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	4982.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.37
10-20	624.67
20-30	867.44
30-40	935.95
40-50	860.88
50-60	678.31
60-70	464.86
70-80	249.46
80-90	73.66
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	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	207	199	192	185	202	195	188	182	187	181	176	180	175	171	173	169	166	162
2	190	176	164	154	186	173	162	152	166	157	149	160	152	146	154	148	142	138
3	175	157	142	131	170	154	140	130	148	137	128	143	133	125	138	130	123	119
4	161	140	125	113	157	138	123	112	133	121	111	129	118	109	125	116	108	104
5	149	126	111	99	145	124	109	98	121	107	97	117	105	96	113	103	95	91
6	139	115	99	88	135	113	98	87	110	96	86	107	95	86	104	93	85	81
7	129	105	89	78	126	103	89	78	101	87	77	98	86	77	95	85	76	73
8	121	96	81	71	118	95	81	70	93	79	70	90	78	70	88	77	69	66
9	113	89	74	64	110	88	74	64	86	73	64	84	72	63	82	71	63	60
10	106	82	68	59	104	82	68	59	80	67	58	78	66	58	76	66	58	55

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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	19.2	20.7	19.5	21.0	21.3	UGR Viewed Endwise			
	3H	20.7	22.1	21.1	22.4	22.8	17.9	19.5	18.3	19.8
	4H	21.3	22.6	21.7	22.9	23.3	19.4	20.8	19.8	21.1
	6H	21.7	22.9	22.1	23.3	23.7	20.0	21.3	20.4	21.6
	8H	21.9	23.0	22.3	23.4	23.8	20.4	21.6	20.8	21.9
	12H	21.9	23.0	22.4	23.4	23.8	20.5	21.6	20.9	22.0

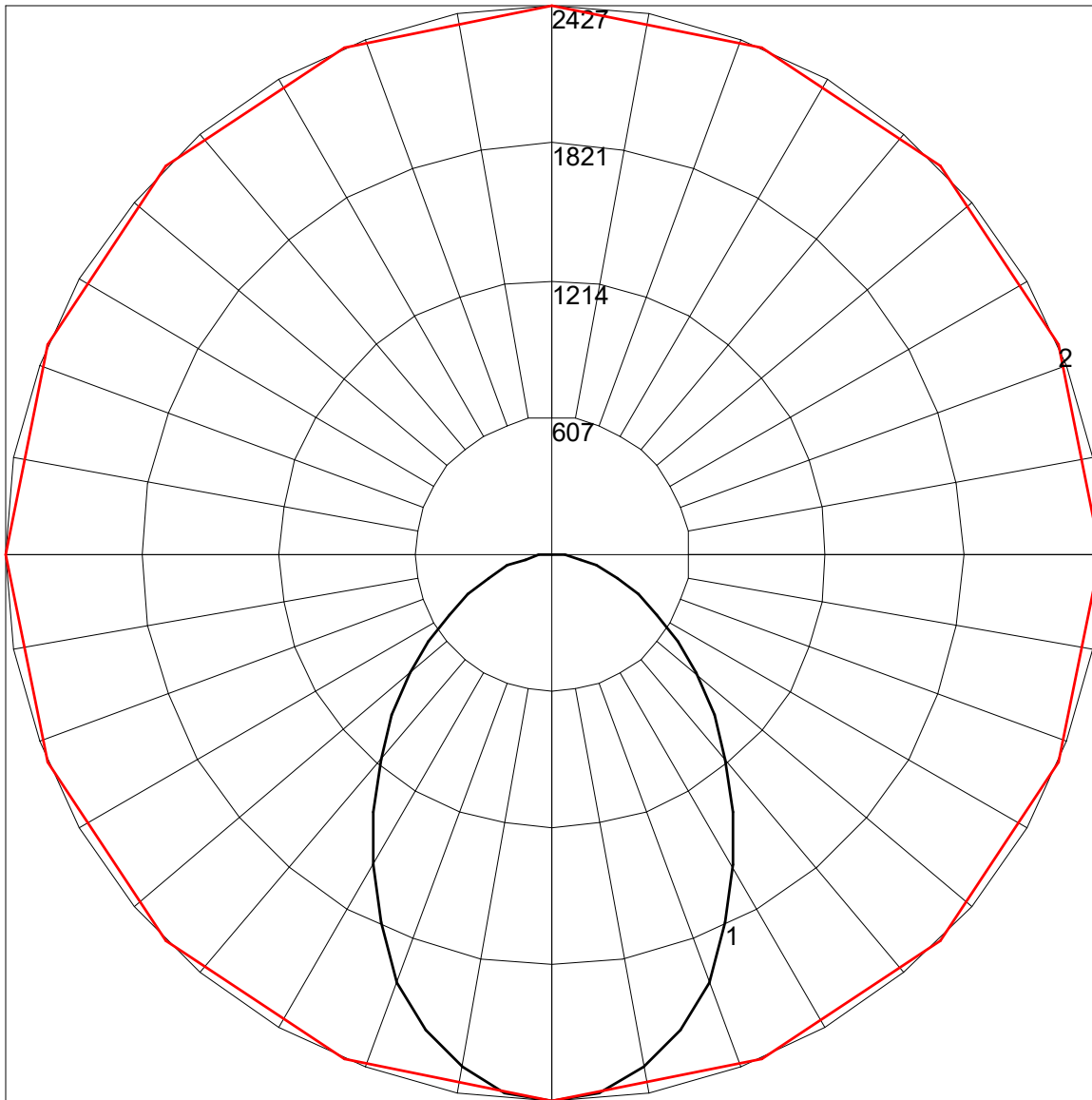
4H	2H	19.6	20.9	20.0	21.2	21.6	20.6	19.9	19.0	20.2
	3H	21.4	22.4	21.8	22.8	23.2	21.8	21.4	20.7	21.8
	4H	22.0	23.0	22.5	23.4	23.9	22.2	21.9	21.4	22.3
	6H	22.6	23.4	23.1	23.9	24.3	22.7	22.3	21.9	22.7
	8H	22.8	23.6	23.3	24.0	24.5	23.2	22.4	22.1	22.9
	12H	22.9	23.7	23.4	24.1	24.6	23.3	22.5	22.3	23.0

8H	4H	22.2	23.0	22.7	23.5	23.9	22.9	22.0	21.7	22.5
	6H	22.9	23.6	23.4	24.0	24.5	23.4	22.5	22.4	23.0
	8H	23.2	23.8	23.7	24.3	24.8	23.7	22.7	22.6	23.2
	12H	23.4	23.9	23.9	24.4	25.0	23.9	22.9	22.9	23.4

12H	4H	22.2	23.0	22.7	23.4	23.9	23.8	22.0	21.8	22.5
	6H	22.9	23.5	23.5	24.0	24.5	23.5	22.5	22.4	23.0
	8H	23.3	23.8	23.8	24.3	24.8	23.8	22.8	22.8	23.3

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 2427.419 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.)