



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GLN-4-L63-840-SAF118-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN from BALLABS TEST NO. 20911.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUEDATE] 15-OCT-2020  
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] LED 22" ARRAYS 1X4' NARROW INDUSTRIAL LUMINAIRE  
[MORE] WHITE HOUSING w/WHITE REFL & FROSTED ACRYLIC LENS  
[LUMCAT] GLN-4-L63/840-DIM-UNV-SAF118-DIM-UNV

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5372
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	42.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.82 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9409	8757	8182
55	8361	7749	7138
65	7074	6598	6017
75	5514	5071	4700
85	3087	3006	2765

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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>	2297.603	2297.603	2297.603	2297.603	2297.603
<b>5</b>	2323.824	2286.366	2272.319	2262.954	2256.867
<b>10</b>	2284.961	2246.098	2224.559	2215.195	2203.957
<b>15</b>	2215.663	2171.181	2150.111	2129.040	2115.462
<b>20</b>	2117.335	2077.067	2048.973	2015.261	2008.237
<b>25</b>	1992.317	1954.391	1918.805	1880.879	1856.999
<b>30</b>	1844.825	1804.089	1769.908	1729.641	1692.182
<b>35</b>	1679.540	1655.660	1588.235	1558.737	1510.977
<b>40</b>	1516.128	1480.542	1428.101	1364.890	1340.542
<b>45</b>	1331.645	1282.481	1239.404	1187.431	1157.932
<b>50</b>	1146.695	1114.855	1065.223	1009.971	991.242
<b>55</b>	959.871	939.737	889.636	830.171	819.402
<b>60</b>	784.285	763.214	726.693	675.187	643.816
<b>65</b>	598.398	585.755	558.130	518.330	508.966
<b>70</b>	441.541	438.731	404.550	378.798	374.584
<b>75</b>	285.620	283.747	262.677	254.249	243.479
<b>80</b>	160.603	164.817	150.302	147.024	136.255
<b>85</b>	53.846	58.060	52.442	44.950	48.228
<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	822.82	N.A.	15.30
0-30	1705.95	N.A.	31.80
0-40	2706.53	N.A.	50.40
0-60	4461.11	N.A.	83.00
0-80	5302.46	N.A.	98.70
0-90	5372.1	N.A.	100.00
10-90	5156.04	N.A.	96.00
20-40	1883.72	N.A.	35.10
20-50	2842.39	N.A.	52.90
40-70	2307.7	N.A.	43.00
60-80	841.34	N.A.	15.70
70-80	288.23	N.A.	5.40
80-90	69.64	N.A.	1.30
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	5372.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	216.06
10-20	606.76
20-30	883.14
30-40	1000.58
40-50	958.67
50-60	795.91
60-70	553.11
70-80	288.23
80-90	69.64
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	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48	47
1	51	49	47	46	50	48	46	45	46	45	44	44	43	42	43	42	41	40
2	47	43	40	38	46	42	40	37	41	38	36	39	37	36	38	36	35	34
3	43	38	35	32	42	38	34	32	36	33	31	35	32	30	34	32	30	29
4	40	34	30	27	38	34	30	27	32	29	27	31	29	26	30	28	26	25
5	36	31	27	24	36	30	26	24	29	26	23	28	25	23	27	25	23	22
6	34	28	24	21	33	27	24	21	27	23	21	26	23	20	25	22	20	19
7	31	25	21	19	31	25	21	18	24	21	18	24	20	18	23	20	18	17
8	29	23	19	17	29	23	19	17	22	19	17	22	19	16	21	18	16	15
9	27	21	18	15	27	21	17	15	21	17	15	20	17	15	20	17	15	14
10	26	20	16	14	25	19	16	14	19	16	14	19	16	14	18	15	14	13

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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	23.6	22.4	23.9	24.2	21.1	22.6	21.4	22.9	23.3
	3H	23.5	24.9	23.9	25.3	25.6	22.6	24.0	22.9	24.3	24.7
	4H	24.1	25.4	24.5	25.7	26.1	23.1	24.4	23.5	24.8	25.1
	6H	24.4	25.6	24.8	26.0	26.4	23.4	24.7	23.9	25.0	25.4
	8H	24.5	25.7	24.9	26.1	26.5	23.5	24.7	24.0	25.1	25.5
	12H	24.6	25.7	25.0	26.1	26.5	23.6	24.7	24.0	25.1	25.5

UGR Viewed Endwise

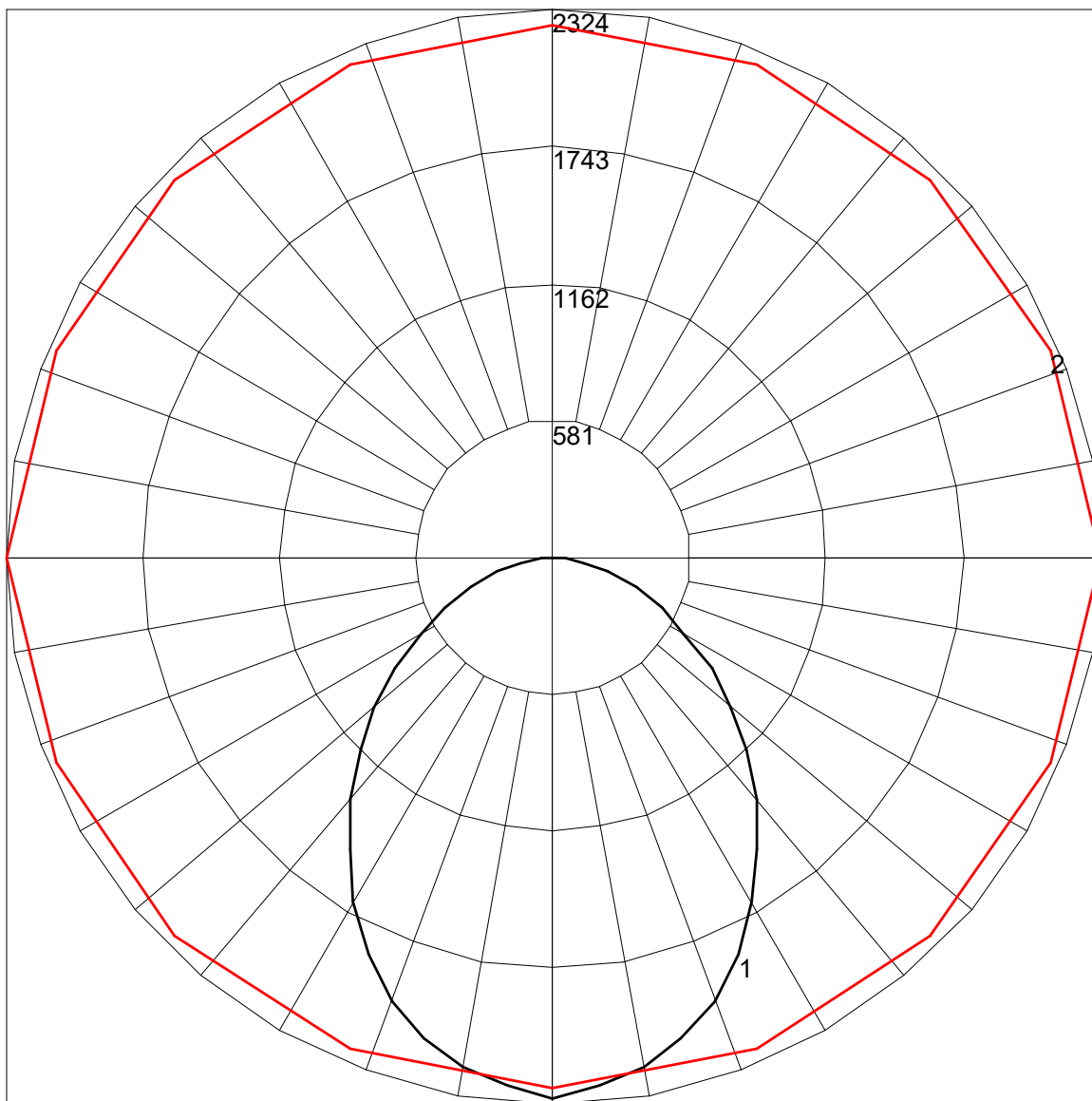
4H	2H	22.5	23.8	22.9	24.1	24.5	21.7	23.0	22.1	23.4	23.8
	3H	24.2	25.3	24.6	25.7	26.1	23.4	24.5	23.8	24.9	25.3
	4H	24.9	25.9	25.3	26.3	26.7	24.0	25.0	24.5	25.4	25.9
	6H	25.3	26.2	25.8	26.7	27.1	24.5	25.4	24.9	25.8	26.3
	8H	25.5	26.3	25.9	26.7	27.2	24.6	25.4	25.1	25.9	26.3
	12H	25.6	26.3	26.0	26.8	27.2	24.7	25.4	25.2	25.9	26.4

8H	4H	25.1	25.9	25.5	26.3	26.8	24.3	25.1	24.8	25.6	26.0
	6H	25.7	26.3	26.1	26.8	27.3	24.9	25.5	25.4	26.0	26.5
	8H	25.8	26.4	26.4	26.9	27.4	25.1	25.7	25.6	26.2	26.7
	12H	26.0	26.5	26.5	27.0	27.6	25.2	25.7	25.7	26.2	26.8

12H	4H	25.1	25.8	25.5	26.3	26.7	24.3	25.1	24.8	25.5	26.0
	6H	25.7	26.3	26.2	26.7	27.3	24.9	25.5	25.5	26.0	26.5
	8H	25.9	26.4	26.4	26.9	27.5	25.1	25.7	25.6	26.2	26.7

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 2323.824 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)