



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L63-840-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20912.0

[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 REFLECTOR & NO LENS

[LUMCAT] GLN-4-L63/840-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6395
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	42.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.65 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9790	9856	9960
55	9350	9786	5570
65	8307	5232	5480
75	6175	1559	1806
85	979	2136	2047

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

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>	2331.018	2331.018	2331.018	2331.018	2331.018
<b>5</b>	2367.930	2324.944	2313.731	2311.395	2309.993
<b>10</b>	2343.166	2304.853	2296.443	2296.443	2292.705
<b>15</b>	2298.312	2266.540	2260.466	2255.794	2252.991
<b>20</b>	2236.170	2206.268	2204.399	2201.128	2198.792
<b>25</b>	2150.200	2131.978	2125.904	2133.379	2130.109
<b>30</b>	2053.016	2035.261	2036.663	2044.605	2047.876
<b>35</b>	1947.889	1927.330	1924.060	1939.011	1947.889
<b>40</b>	1811.457	1801.645	1823.605	1819.400	1827.810
<b>45</b>	1667.550	1654.000	1678.763	1691.846	1696.518
<b>50</b>	1493.739	1497.010	1524.109	1553.078	1558.217
<b>55</b>	1291.895	1312.921	1352.168	1177.891	769.530
<b>60</b>	1071.829	1098.461	1179.760	661.600	668.608
<b>65</b>	845.689	873.723	532.644	555.538	557.875
<b>70</b>	591.982	691.970	424.246	171.474	128.489
<b>75</b>	384.999	257.912	97.184	107.463	112.603
<b>80</b>	166.802	136.432	77.560	91.110	91.577
<b>85</b>	20.558	33.173	44.854	41.584	42.985
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	860.67	N.A.	13.50
0-30	1844.18	N.A.	28.80
0-40	3055.48	N.A.	47.80
0-60	5447.47	N.A.	85.20
0-80	6344.65	N.A.	99.20
0-90	6394.8	N.A.	100.00
10-90	6173.68	N.A.	96.50
20-40	2194.81	N.A.	34.30
20-50	3488.47	N.A.	54.60
40-70	3058.36	N.A.	47.80
60-80	897.18	N.A.	14.00
70-80	230.81	N.A.	3.60
80-90	50.15	N.A.	0.80
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	6394.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	221.12
10-20	639.55
20-30	983.50
30-40	1211.31
40-50	1293.66
50-60	1098.33
60-70	666.38
70-80	230.81
80-90	50.15
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

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

**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	48	46	50	48	47	45	46	45	44	44	43	42	43	42	41	40
2	47	43	40	38	46	43	40	37	41	39	37	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	39	34	30	27	38	33	30	27	32	29	27	31	28	26	30	28	26	25
5	36	30	26	23	35	30	26	23	29	26	23	28	25	23	27	25	22	22
6	33	27	23	20	33	27	23	20	26	23	20	25	22	20	25	22	20	19
7	31	25	21	18	30	24	21	18	24	20	18	23	20	18	22	20	18	17
8	29	23	19	16	28	22	19	16	22	18	16	21	18	16	21	18	16	15
9	27	21	17	14	26	20	17	14	20	17	14	19	16	14	19	16	14	13
10	25	19	15	13	25	19	15	13	18	15	13	18	15	13	18	15	13	12

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

**UGR TABLE - CORRECTED**

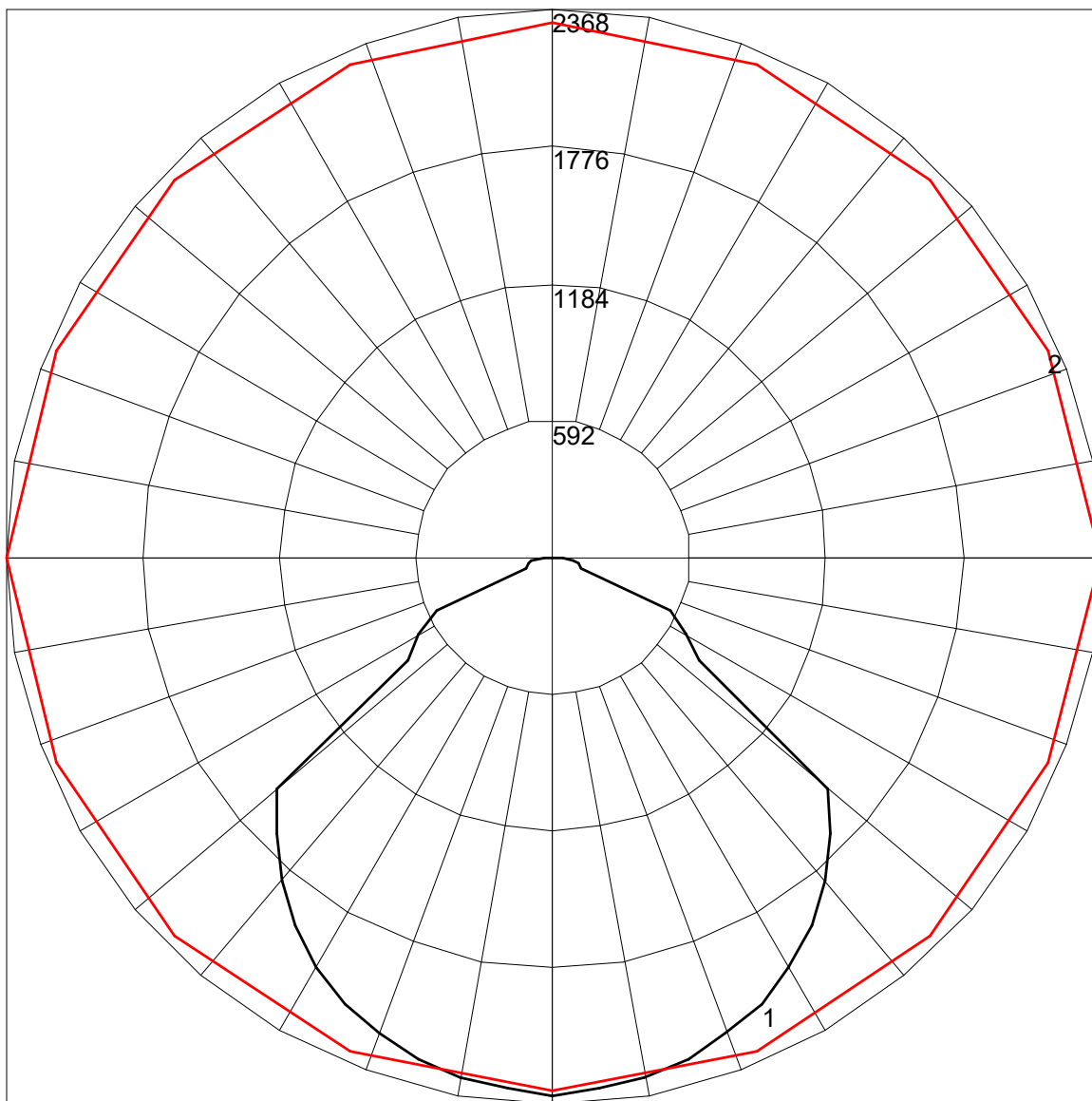
Reflectances

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	23.1	24.7	23.4	25.0	25.3	20.9	22.4	21.2	22.8	23.1
	3H	24.7	26.2	25.1	26.5	26.9	21.3	22.7	21.7	23.1	23.4
	4H	25.1	26.5	25.5	26.8	27.2	21.4	22.7	21.8	23.0	23.4
	6H	25.3	26.6	25.7	26.9	27.3	21.5	22.7	21.9	23.1	23.5
	8H	25.4	26.5	25.8	26.9	27.3	21.5	22.7	21.9	23.1	23.5
	12H	25.4	26.5	25.8	26.9	27.3	21.6	22.7	22.0	23.0	23.5
4H	2H	23.2	24.6	23.6	24.9	25.3	21.3	22.6	21.7	23.0	23.4
	3H	25.2	26.3	25.6	26.7	27.1	21.9	23.0	22.3	23.4	23.8
	4H	25.6	26.6	26.0	27.0	27.4	22.0	23.0	22.4	23.4	23.8
	6H	25.9	26.7	26.3	27.2	27.6	22.1	23.0	22.6	23.4	23.9
	8H	25.9	26.7	26.4	27.2	27.6	22.2	23.0	22.7	23.5	23.9
	12H	25.9	26.6	26.4	27.1	27.6	22.3	23.0	22.7	23.5	23.9
8H	4H	25.5	26.4	26.0	26.8	27.3	22.1	22.9	22.6	23.4	23.9
	6H	25.9	26.5	26.4	27.0	27.5	22.4	23.0	22.9	23.5	24.0
	8H	25.9	26.5	26.4	27.0	27.5	22.5	23.1	23.0	23.6	24.1
	12H	26.0	26.5	26.5	27.0	27.5	22.6	23.1	23.1	23.6	24.2
12H	4H	25.5	26.3	26.0	26.7	27.2	22.1	22.9	22.6	23.3	23.8
	6H	25.8	26.4	26.4	26.9	27.4	22.4	23.0	22.9	23.4	24.0
	8H	25.9	26.4	26.4	26.9	27.5	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 2367.93 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.)