



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L126-840-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 1X8' NARROW INDUSTRIAL LUMINAIRE

[MORE] WHITE HOUSING w/WHITE REFL & FROSTED ACRYLIC LENS

[LUMCAT] GLN-8-L126/840-DIM-UNV-SAF118-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	81.7
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)	8.01 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	9607	8941	8354
55	8537	7912	7288
65	7223	6737	6144
75	5630	5177	4799
85	3152	3069	2823

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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>	4915.126	4915.126	4915.126	4915.126	4915.126
<b>5</b>	4971.219	4891.087	4861.037	4841.004	4827.982
<b>10</b>	4888.082	4804.944	4758.868	4738.835	4714.795
<b>15</b>	4739.836	4644.679	4599.605	4554.530	4525.482
<b>20</b>	4529.489	4443.346	4383.247	4311.128	4296.103
<b>25</b>	4262.047	4180.912	4104.787	4023.652	3972.568
<b>30</b>	3946.525	3859.381	3786.260	3700.117	3619.985
<b>35</b>	3592.940	3541.856	3397.617	3334.513	3232.344
<b>40</b>	3243.362	3167.236	3055.051	2919.827	2867.741
<b>45</b>	2848.710	2743.536	2651.384	2540.200	2477.095
<b>50</b>	2453.056	2384.943	2278.768	2160.572	2120.506
<b>55</b>	2053.395	2010.324	1903.147	1775.936	1752.898
<b>60</b>	1677.774	1632.699	1554.570	1444.388	1377.277
<b>65</b>	1280.116	1253.072	1193.974	1108.833	1088.800
<b>70</b>	944.562	938.552	865.431	810.340	801.325
<b>75</b>	611.010	607.004	561.929	543.899	520.861
<b>80</b>	343.568	352.583	321.532	314.520	291.482
<b>85</b>	115.190	124.205	112.185	96.159	103.171
<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	1760.2	N.A.	15.30
0-30	3649.44	N.A.	31.80
0-40	5789.92	N.A.	50.40
0-60	9543.4	N.A.	83.00
0-80	11343.24	N.A.	98.70
0-90	11492.21	N.A.	100.00
10-90	11030.01	N.A.	96.00
20-40	4029.72	N.A.	35.10
20-50	6080.55	N.A.	52.90
40-70	4936.72	N.A.	43.00
60-80	1799.84	N.A.	15.70
70-80	616.59	N.A.	5.40
80-90	148.97	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	11492.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	462.20
10-20	1298.00
20-30	1889.24
30-40	2140.48
40-50	2050.83
50-60	1702.65
60-70	1183.24
70-80	616.59
80-90	148.97
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	255	255	255	255	249	249	249	249	238	238	238	228	228	228	218	218	218	214
1	234	225	216	209	229	220	212	205	211	205	199	203	198	193	195	191	187	183
2	214	198	184	173	209	194	181	171	186	176	167	179	171	163	173	166	159	155
3	196	175	159	145	191	172	156	144	165	152	142	160	148	139	154	145	137	132
4	181	156	138	125	176	153	137	124	148	134	122	143	131	120	139	128	119	114
5	167	140	122	108	162	138	121	108	133	118	107	129	116	105	125	114	104	100
6	154	127	109	95	150	125	108	95	121	106	94	118	104	93	114	102	92	88
7	144	116	97	85	140	114	97	84	111	95	84	108	94	83	105	92	83	79
8	134	106	88	76	131	104	88	76	102	86	75	99	85	75	96	84	75	71
9	125	97	80	69	122	96	80	69	94	79	68	91	78	68	89	77	68	64
10	118	90	74	63	115	89	73	63	87	72	62	85	72	62	83	71	62	58

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**UGR TABLE - CORRECTED**

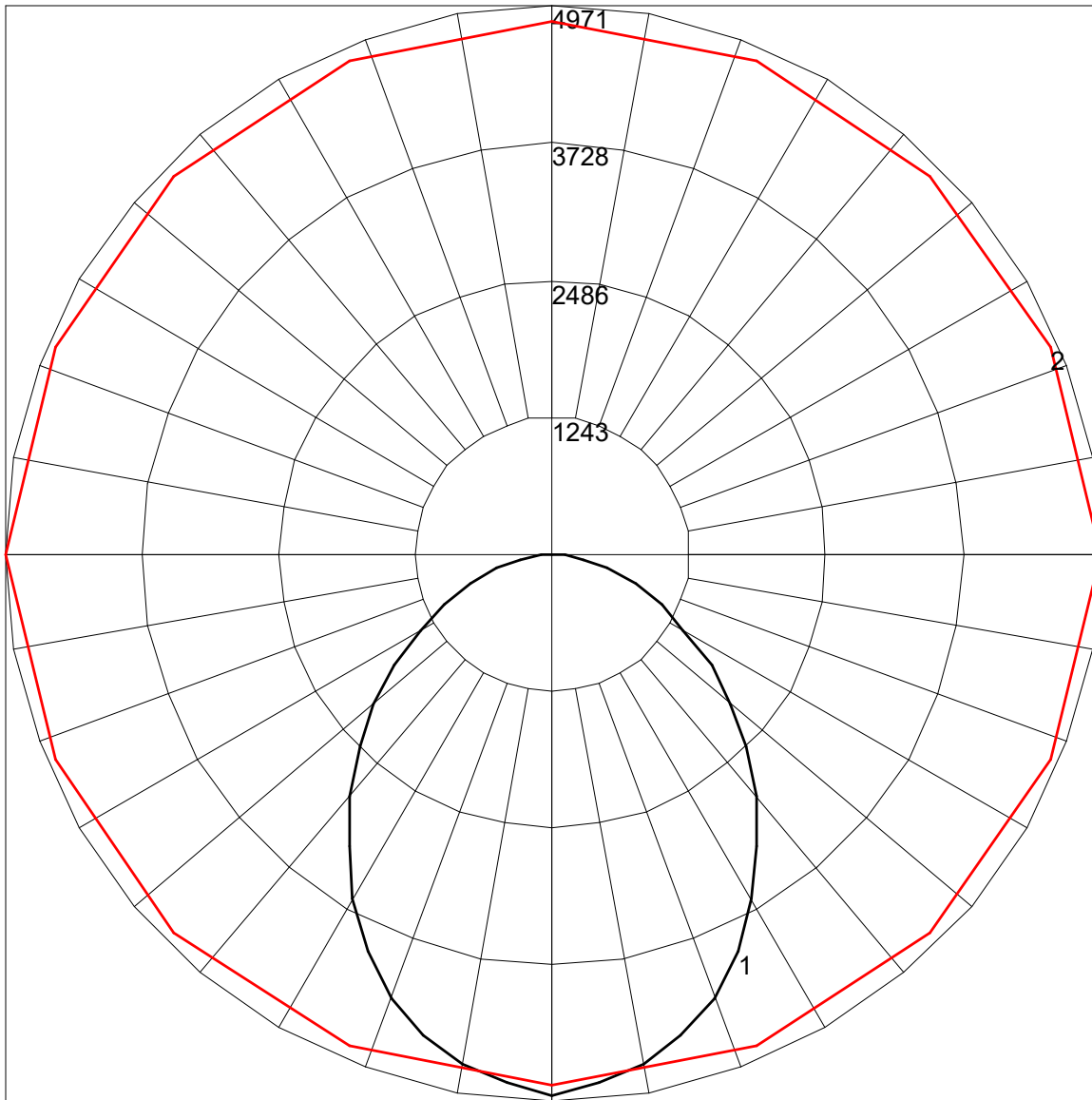
Reflectances

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	19.3	20.9	19.7	21.2	21.5	18.4	19.9	18.7	20.2	20.6
	3H	20.8	22.3	21.2	22.6	22.9	19.9	21.3	20.2	21.6	22.0
	4H	21.4	22.7	21.8	23.0	23.4	20.4	21.7	20.8	22.1	22.4
	6H	21.7	22.9	22.1	23.3	23.7	20.7	22.0	21.2	22.3	22.7
	8H	21.8	23.0	22.2	23.4	23.8	20.8	22.0	21.3	22.4	22.8
	12H	21.9	23.0	22.3	23.4	23.8	20.9	22.0	21.3	22.4	22.8
4H	2H	19.8	21.1	20.2	21.4	21.8	19.0	20.3	19.4	20.7	21.1
	3H	21.5	22.6	21.9	23.0	23.4	20.7	21.8	21.1	22.2	22.6
	4H	22.2	23.2	22.6	23.6	24.0	21.3	22.3	21.8	22.7	23.2
	6H	22.6	23.5	23.1	24.0	24.4	21.8	22.7	22.2	23.1	23.6
	8H	22.8	23.6	23.2	24.0	24.5	21.9	22.7	22.4	23.2	23.6
	12H	22.9	23.6	23.3	24.1	24.5	22.0	22.7	22.5	23.2	23.7
8H	4H	22.4	23.2	22.8	23.6	24.1	21.6	22.4	22.1	22.9	23.3
	6H	23.0	23.6	23.4	24.1	24.6	22.2	22.8	22.7	23.3	23.8
	8H	23.1	23.7	23.7	24.2	24.7	22.4	23.0	22.9	23.5	24.0
	12H	23.3	23.8	23.8	24.3	24.9	22.5	23.0	23.0	23.5	24.1
12H	4H	22.4	23.1	22.9	23.6	24.0	21.6	22.4	22.1	22.8	23.3
	6H	23.0	23.6	23.5	24.0	24.6	22.2	22.8	22.8	23.3	23.8
	8H	23.2	23.7	23.7	24.2	24.8	22.4	23.0	22.9	23.5	24.0

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 4971.219 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.)