



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GLN-8-L126-840-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 1x8' NARROW INDUSTRIAL LUMINAIRE  
[MORE] WHITE HOUSING w/WHITE REFLECTOR & NO LENS  
[LUMCAT] GLN-8-L126/840-DIM-UNV

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12629
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	81.7
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)	8.01 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	9679	9744	9847
55	9244	9675	5506
65	8213	5173	5418
75	6105	1541	1786
85	968	2112	2024

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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>	4603.352	4603.352	4603.352	4603.352	4603.352
<b>5</b>	4676.245	4591.357	4569.212	4564.598	4561.830
<b>10</b>	4627.342	4551.681	4535.072	4535.072	4527.690
<b>15</b>	4538.763	4476.019	4464.024	4454.797	4449.261
<b>20</b>	4416.044	4356.991	4353.300	4346.841	4342.228
<b>25</b>	4246.267	4210.281	4198.286	4213.050	4206.591
<b>30</b>	4054.345	4019.282	4022.051	4037.736	4044.195
<b>35</b>	3846.737	3806.139	3799.680	3829.206	3846.737
<b>40</b>	3577.309	3557.932	3601.299	3592.995	3609.604
<b>45</b>	3293.117	3266.359	3315.262	3341.098	3350.325
<b>50</b>	2949.873	2956.332	3009.848	3067.056	3077.205
<b>55</b>	2551.266	2592.788	2670.295	2326.127	1519.687
<b>60</b>	2116.674	2169.268	2329.818	1306.544	1320.384
<b>65</b>	1670.088	1725.450	1051.878	1097.091	1101.704
<b>70</b>	1169.061	1366.519	837.812	338.631	253.743
<b>75</b>	760.305	509.331	191.922	212.221	222.371
<b>80</b>	329.404	269.428	153.168	179.927	180.849
<b>85</b>	40.599	65.512	88.579	82.120	84.888
<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	1699.68	N.A.	13.50
0-30	3641.92	N.A.	28.80
0-40	6034.04	N.A.	47.80
0-60	10757.79	N.A.	85.20
0-80	12529.57	N.A.	99.20
0-90	12628.6	N.A.	100.00
10-90	12191.93	N.A.	96.50
20-40	4334.36	N.A.	34.30
20-50	6889.11	N.A.	54.60
40-70	6039.73	N.A.	47.80
60-80	1771.78	N.A.	14.00
70-80	455.80	N.A.	3.60
80-90	99.03	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	12628.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	436.68
10-20	1263.00
20-30	1942.25
30-40	2392.12
40-50	2554.75
50-60	2169.00
60-70	1315.98
70-80	455.80
80-90	99.03
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	235	235	235	235	230	230	230	230	219	219	219	210	210	210	202	202	202	197
1	217	208	201	194	212	204	197	191	196	190	185	188	183	179	181	177	174	170
2	198	183	171	160	193	180	168	158	173	163	155	166	158	151	160	154	148	144
3	182	162	147	134	177	159	145	133	153	141	131	148	137	129	143	134	126	122
4	166	144	127	114	162	141	126	114	136	123	112	132	120	111	128	117	109	105
5	153	129	111	99	149	126	110	98	122	108	97	118	106	96	115	104	95	91
6	141	116	99	86	138	114	98	86	110	96	85	107	94	84	104	93	84	80
7	131	105	88	76	128	103	87	76	100	86	75	97	84	75	95	83	74	70
8	122	96	79	68	119	94	79	68	92	77	67	89	76	67	87	75	66	63
9	114	88	72	61	111	87	71	61	84	70	60	82	69	60	80	68	60	56
10	107	81	65	55	104	80	65	55	78	64	55	76	63	55	74	63	54	51

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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	20.4	22.0	20.7	22.3	22.6	18.2	19.7	18.5	20.1	20.4
	3H	22.0	23.5	22.4	23.8	24.1	18.6	20.0	19.0	20.4	20.7
	4H	22.4	23.8	22.8	24.1	24.5	18.7	20.0	19.1	20.3	20.7
	6H	22.6	23.9	23.0	24.2	24.6	18.8	20.0	19.2	20.4	20.8
	8H	22.7	23.8	23.1	24.2	24.6	18.8	20.0	19.2	20.4	20.8
	12H	22.7	23.8	23.1	24.2	24.6	18.9	20.0	19.3	20.3	20.8

UGR Viewed Endwise

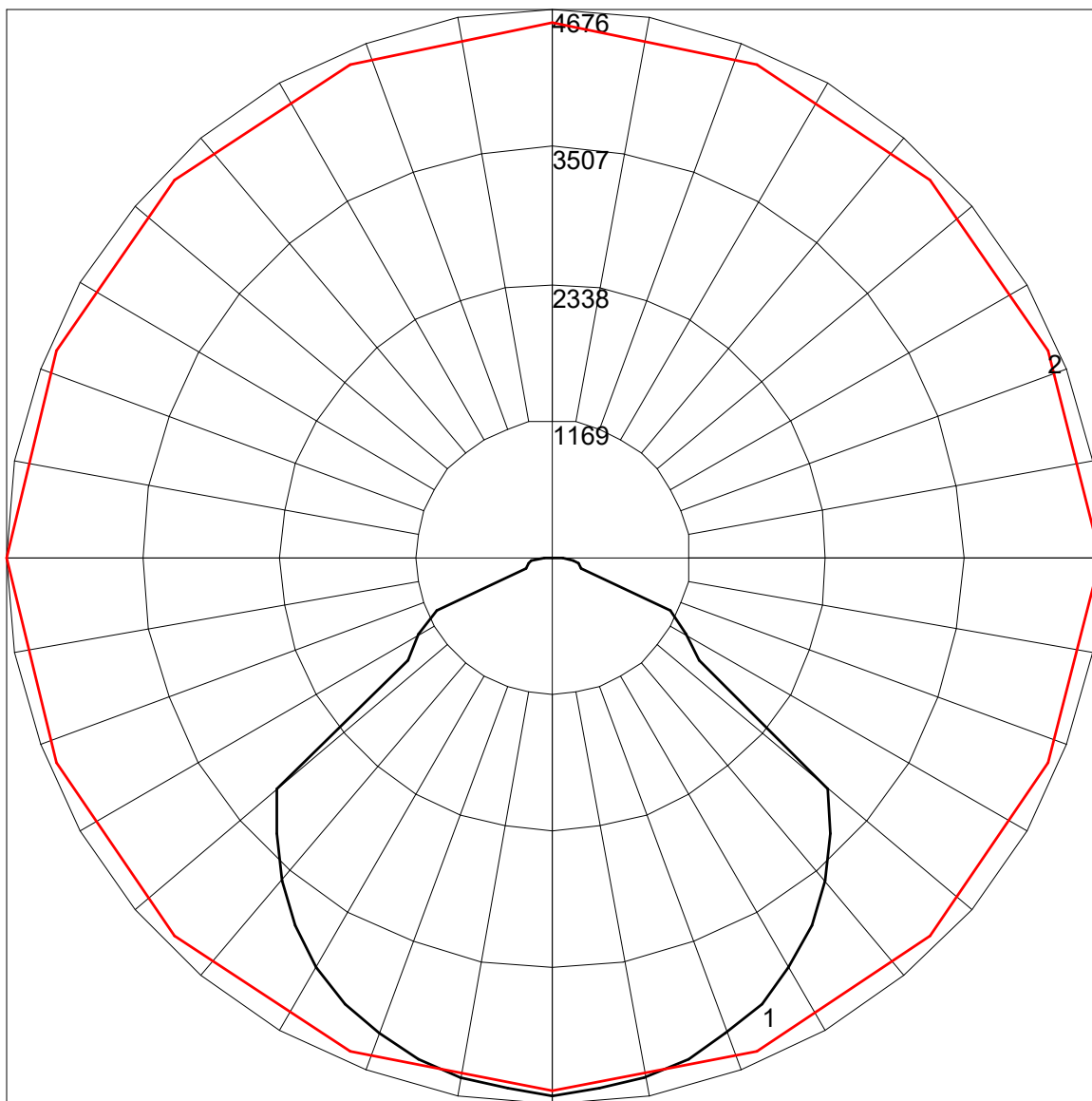
4H	2H	20.5	21.9	20.9	22.2	22.6	18.6	19.9	19.0	20.3	20.7
	3H	22.5	23.6	22.9	24.0	24.4	19.2	20.3	19.6	20.7	21.1
	4H	22.9	23.9	23.3	24.3	24.7	19.3	20.3	19.7	20.7	21.1
	6H	23.2	24.0	23.6	24.5	24.9	19.4	20.3	19.9	20.7	21.2
	8H	23.2	24.0	23.7	24.5	24.9	19.5	20.3	20.0	20.8	21.2
	12H	23.2	23.9	23.7	24.4	24.9	19.6	20.3	20.0	20.8	21.2

8H	4H	22.8	23.7	23.3	24.1	24.6	19.4	20.2	19.9	20.7	21.2
	6H	23.2	23.8	23.7	24.3	24.8	19.7	20.3	20.2	20.8	21.3
	8H	23.2	23.8	23.7	24.3	24.8	19.8	20.4	20.3	20.9	21.4
	12H	23.3	23.8	23.8	24.3	24.8	19.9	20.4	20.4	20.9	21.5

12H	4H	22.8	23.5	23.3	24.0	24.5	19.4	20.2	19.9	20.6	21.1
	6H	23.1	23.7	23.7	24.2	24.7	19.7	20.3	20.2	20.7	21.3
	8H	23.2	23.7	23.7	24.2	24.8	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 4676.245 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.)