



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L300-840-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-L300/840-DIM-UNV-SAF118-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26777
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	202.4
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	22385	20834	19465
55	19892	18436	16981
65	16830	15698	14315
75	13117	12064	11182
85	7344	7152	6577

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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	11452.521	11452.521	11452.521	11452.521	11452.521
5	11583.220	11396.507	11326.489	11279.811	11249.470
10	11389.505	11195.790	11088.430	11041.752	10985.738
15	11044.086	10822.364	10717.338	10612.311	10544.628
20	10553.964	10353.247	10213.212	10045.170	10010.161
25	9930.808	9741.761	9564.384	9375.337	9256.307
30	9195.625	8992.574	8822.199	8621.482	8434.769
35	8371.753	8252.723	7916.640	7769.603	7531.544
40	7557.217	7379.839	7118.441	6803.362	6681.999
45	6637.654	6392.593	6177.873	5918.808	5771.772
50	5715.758	5557.052	5309.657	5034.255	4940.898
55	4784.526	4684.167	4434.438	4138.031	4084.351
60	3909.308	3804.281	3622.236	3365.505	3209.133
65	2982.743	2919.728	2782.027	2583.644	2536.966
70	2200.882	2186.878	2016.503	1888.137	1867.132
75	1423.688	1414.352	1309.326	1267.316	1213.636
80	800.533	821.538	749.187	732.849	679.169
85	268.400	289.405	261.398	224.056	240.393
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4101.37	N.A.	15.30
0-30	8503.41	N.A.	31.80
0-40	13490.84	N.A.	50.40
0-60	22236.66	N.A.	83.00
0-80	26430.38	N.A.	98.70
0-90	26777.49	N.A.	100.00
10-90	25700.54	N.A.	96.00
20-40	9389.47	N.A.	35.10
20-50	14168.02	N.A.	52.90
40-70	11502.84	N.A.	43.00
60-80	4193.72	N.A.	15.70
70-80	1436.7	N.A.	5.40
80-90	347.12	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	26777.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1076.95
10-20	3024.42
20-30	4402.04
30-40	4987.43
40-50	4778.55
50-60	3967.27
60-70	2757.03
70-80	1436.7
80-90	347.12
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	277	277	277	277	271	271	271	271	259	259	259	248	248	248	238	238	238	233
1	255	245	236	227	249	240	231	224	230	223	217	221	215	210	212	208	204	199
2	234	215	201	188	228	211	197	186	203	191	181	195	186	177	188	180	173	169
3	214	191	173	158	208	187	170	157	180	166	154	174	162	151	168	158	149	144
4	197	170	151	136	192	167	149	135	161	145	133	156	142	131	151	139	129	124
5	182	153	133	118	177	150	131	117	145	129	116	141	126	115	137	124	114	109
6	168	138	118	104	164	136	117	103	132	115	102	128	113	102	124	111	101	96
7	156	126	106	92	152	124	105	92	120	104	91	117	102	91	114	100	90	86
8	146	115	96	83	142	114	95	83	111	94	82	108	93	82	105	91	81	77
9	136	106	88	75	133	105	87	75	102	86	74	100	85	74	97	84	74	70
10	128	98	80	68	125	97	80	68	95	79	68	93	78	68	91	77	67	63

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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	19.4	21.0	19.8	21.3	21.6	18.5	20.1	18.9	20.4	20.7
	3H	21.0	22.4	21.3	22.7	23.1	20.0	21.4	20.4	21.7	22.1
	4H	21.5	22.8	21.9	23.2	23.5	20.5	21.8	20.9	22.2	22.6
	6H	21.9	23.1	22.3	23.4	23.8	20.9	22.1	21.3	22.5	22.8
	8H	21.9	23.1	22.4	23.5	23.9	21.0	22.1	21.4	22.5	22.9
	12H	22.0	23.1	22.4	23.5	23.9	21.0	22.1	21.4	22.5	22.9

UGR Viewed Endwise

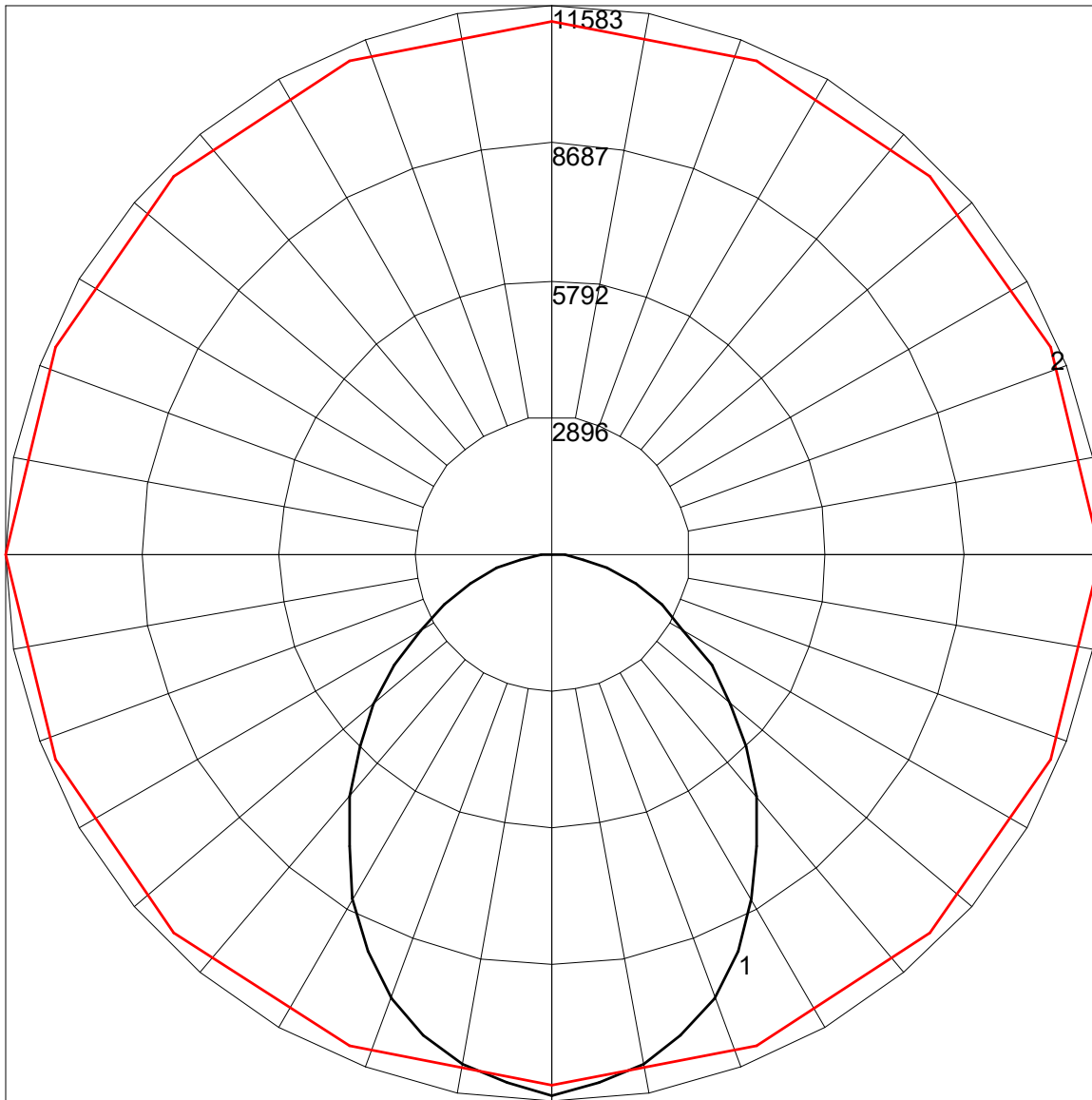
4H	2H	19.9	21.2	20.3	21.6	21.9	19.1	20.5	19.5	20.8	21.2
	3H	21.6	22.8	22.1	23.2	23.6	20.8	21.9	21.2	22.3	22.7
	4H	22.3	23.3	22.7	23.7	24.1	21.5	22.5	21.9	22.9	23.3
	6H	22.8	23.6	23.2	24.1	24.5	21.9	22.8	22.4	23.2	23.7
	8H	22.9	23.7	23.4	24.2	24.6	22.1	22.9	22.5	23.3	23.8
	12H	23.0	23.7	23.5	24.2	24.7	22.1	22.8	22.6	23.3	23.8

8H	4H	22.5	23.3	23.0	23.7	24.2	21.7	22.6	22.2	23.0	23.5
	6H	23.1	23.7	23.6	24.2	24.7	22.3	23.0	22.8	23.5	23.9
	8H	23.3	23.9	23.8	24.4	24.9	22.5	23.1	23.0	23.6	24.1
	12H	23.4	23.9	23.9	24.4	25.0	22.6	23.1	23.1	23.6	24.2

12H	4H	22.5	23.2	23.0	23.7	24.2	21.8	22.5	22.2	23.0	23.4
	6H	23.1	23.7	23.6	24.2	24.7	22.4	23.0	22.9	23.4	24.0
	8H	23.3	23.9	23.8	24.4	24.9	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 11583.22 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.)