



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L150-840-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-L150/840-DIM-UNV-SAF118-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	101.2
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	23450	21825	20391
55	20838	19313	17788
65	17631	16444	14996
75	13741	12637	11714
85	7693	7492	6890

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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	5726.047	5726.047	5726.047	5726.047	5726.047
5	5791.394	5698.041	5663.034	5639.695	5624.525
10	5694.540	5597.686	5544.008	5520.670	5492.664
15	5521.837	5410.980	5358.469	5305.958	5272.117
20	5276.785	5176.430	5106.416	5022.398	5004.894
25	4965.219	4870.699	4782.014	4687.493	4627.981
30	4597.641	4496.120	4410.935	4310.580	4217.227
35	4185.720	4126.208	3958.172	3884.657	3765.631
40	3778.467	3689.782	3559.088	3401.554	3340.875
45	3318.703	3196.177	3088.821	2959.294	2885.778
50	2857.772	2778.422	2654.729	2517.033	2470.357
55	2392.174	2341.996	2217.137	2068.938	2042.099
60	1954.581	1902.070	1811.051	1682.690	1604.507
65	1491.316	1459.809	1390.961	1291.774	1268.436
70	1100.400	1093.398	1008.214	944.033	933.531
75	711.818	707.150	654.639	633.634	606.795
80	400.251	410.754	374.579	366.411	339.572
85	134.195	144.697	130.694	112.024	120.192
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2050.61	N.A.	15.30
0-30	4251.55	N.A.	31.80
0-40	6745.17	N.A.	50.40
0-60	11117.91	N.A.	83.00
0-80	13214.7	N.A.	98.70
0-90	13388.25	N.A.	100.00
10-90	12849.79	N.A.	96.00
20-40	4694.56	N.A.	35.10
20-50	7083.75	N.A.	52.90
40-70	5751.21	N.A.	43.00
60-80	2096.78	N.A.	15.70
70-80	718.32	N.A.	5.40
80-90	173.55	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	13388.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	538.45
10-20	1512.15
20-30	2200.94
30-40	2493.62
40-50	2389.18
50-60	1983.56
60-70	1378.46
70-80	718.32
80-90	173.55
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	297	297	297	297	290	290	290	290	277	277	277	265	265	265	254	254	254	249
1	273	262	252	243	266	256	247	239	246	238	232	236	230	225	227	222	218	213
2	250	230	214	201	243	226	211	199	217	205	194	209	199	190	202	193	185	180
3	229	204	185	169	223	200	182	168	193	177	165	186	173	162	180	169	159	154
4	210	182	161	145	205	179	159	144	173	156	142	167	152	140	161	149	138	133
5	194	163	142	126	189	161	141	125	156	138	124	151	135	123	146	132	121	116
6	180	148	126	111	175	146	125	111	141	123	110	137	121	109	133	119	108	103
7	167	135	114	99	163	133	113	98	129	111	98	125	109	97	122	107	96	92
8	156	123	103	89	152	122	102	88	118	101	88	115	99	87	112	98	87	82
9	146	114	94	80	143	112	93	80	109	92	80	107	91	79	104	90	79	74
10	137	105	86	73	134	104	85	73	101	84	73	99	83	72	97	82	72	68

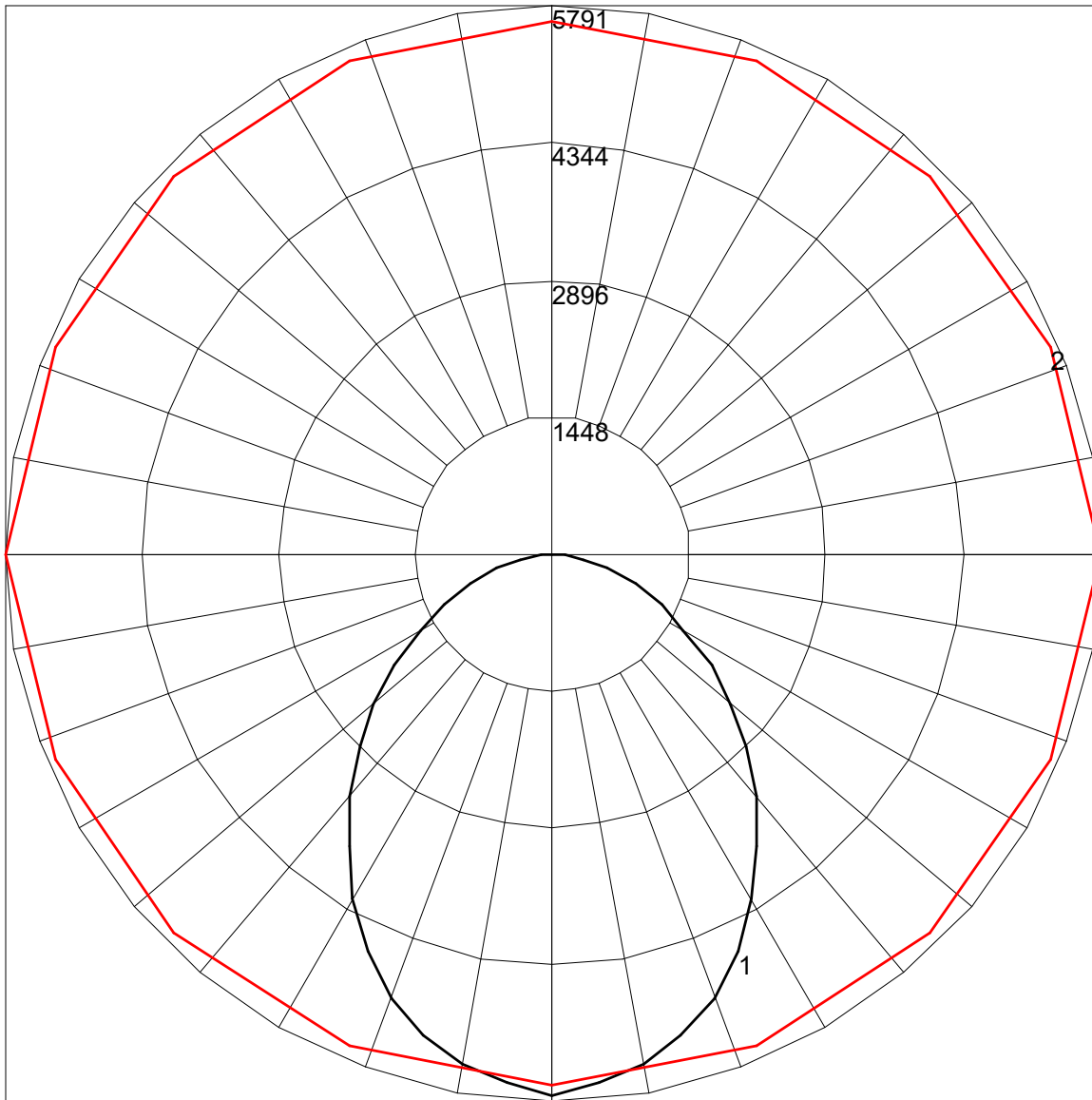
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UGR TABLE - CORRECTED

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 = 5791.394 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.)