



IES INDOOR REPORT

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	202.4
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	23058	23213	23458
55	22022	23050	13118
65	19565	12323	12907
75	14544	3671	4254
85	2306	5032	4822

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : GLN-8-L300-840-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>
0	10966.540	10966.540	10966.540	10966.540	10966.540
5	11140.194	10937.964	10885.209	10874.218	10867.624
10	11023.692	10843.444	10803.878	10803.878	10786.292
15	10812.670	10663.196	10634.620	10612.639	10599.450
20	10520.317	10379.636	10370.843	10355.456	10344.465
25	10115.858	10030.131	10001.555	10036.725	10021.338
30	9658.645	9575.115	9581.710	9619.078	9634.465
35	9164.062	9067.344	9051.957	9122.297	9164.062
40	8522.204	8476.043	8579.356	8559.573	8599.139
45	7845.176	7781.430	7897.931	7959.479	7981.461
50	7027.466	7042.853	7170.346	7306.631	7330.810
55	6077.868	6176.785	6361.429	5541.521	3620.343
60	5042.542	5167.836	5550.313	3112.572	3145.544
65	3978.641	4110.529	2505.884	2613.593	2624.584
70	2785.048	3255.451	1995.915	806.719	604.490
75	1811.271	1213.375	457.214	505.573	529.753
80	784.737	641.858	364.892	428.638	430.836
85	96.718	156.068	211.022	195.635	202.229
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GLN-8-L300-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4049.14	N.A.	13.50
0-30	8676.14	N.A.	28.80
0-40	14374.87	N.A.	47.80
0-60	25628.23	N.A.	85.20
0-80	29849.13	N.A.	99.20
0-90	30085.05	N.A.	100.00
10-90	29044.76	N.A.	96.50
20-40	10325.73	N.A.	34.30
20-50	16411.89	N.A.	54.60
40-70	14388.41	N.A.	47.80
60-80	4220.89	N.A.	14.00
70-80	1085.85	N.A.	3.60
80-90	235.93	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	30085.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1040.29
10-20	3008.85
20-30	4627.00
30-40	5698.73
40-50	6086.16
50-60	5167.2
60-70	3135.04
70-80	1085.85
80-90	235.93
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-8-L300-840-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	284	284	284	284	277	277	277	277	265	265	265	253	253	253	243	243	243	238
1	262	251	242	234	255	246	238	230	236	229	223	227	221	216	218	214	210	205
2	239	221	206	193	233	217	203	191	208	197	187	201	191	182	194	186	178	173
3	219	195	177	162	213	192	174	161	185	170	158	178	166	155	172	162	153	148
4	201	173	153	138	195	170	152	137	164	148	135	159	145	133	154	142	132	127
5	185	155	134	119	180	152	133	118	147	130	117	143	128	116	138	125	115	110
6	171	140	119	104	166	137	118	104	133	116	103	129	114	102	125	112	101	96
7	158	127	106	92	154	125	105	91	121	104	91	118	102	90	114	100	89	85
8	147	115	95	82	143	114	95	82	111	93	81	108	92	81	105	91	80	76
9	137	106	87	73	134	104	86	73	102	85	73	99	84	73	97	83	72	68
10	129	98	79	67	126	96	78	66	94	77	66	92	76	66	90	76	65	61

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GLN-8-L300-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

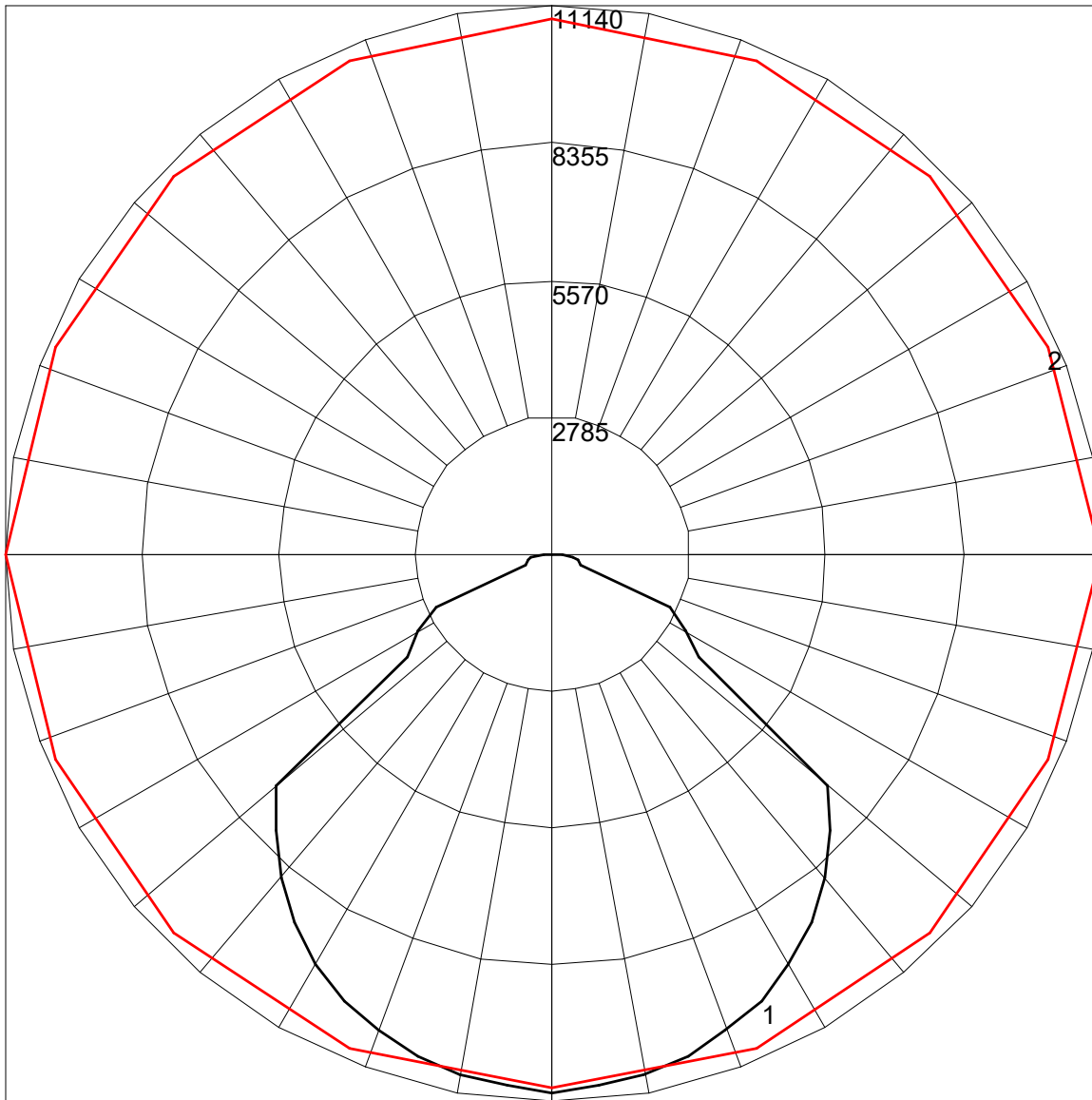
Reflectances

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	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	20.7
	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	24.1	24.6	18.8	20.0	19.3	20.3	20.8
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	20.1	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	23.2	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 = 11140.194 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.)