



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L150-840-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20910.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-OCT-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] LED 22" ARRAYS 1X4' NARROW INDUSTRIAL LUMINAIRE

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

[LUMCAT] GLN-4-L150/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	101.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	27897	28330	17108
55	26114	16525	17302
65	21690	15308	6777
75	12552	5426	5835
85	1918	2430	2430

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : GLN-4-L150-840-SCHA118-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	5607.648	5607.648	5607.648	5607.648	5607.648
5	5690.179	5593.149	5566.382	5552.999	5548.538
10	5636.645	5541.846	5510.618	5510.618	5510.618
15	5531.808	5451.508	5444.816	5423.626	5412.473
20	5391.283	5326.596	5312.098	5285.331	5286.446
25	5197.223	5163.765	5142.574	5133.652	5124.730
30	4958.553	4930.670	4920.633	4930.670	4925.094
35	4677.501	4649.619	4665.233	4698.691	4695.345
40	4333.993	4293.843	4365.221	3988.255	3117.219
45	3948.105	3933.607	4009.446	2400.091	2421.281
50	3530.989	3513.144	2381.131	2238.375	2256.219
55	2997.883	3043.610	1897.098	1982.975	1986.321
60	2459.201	2484.853	1650.620	1495.596	1076.249
65	1834.642	1505.633	1294.845	576.602	573.256
70	1241.311	860.999	430.500	443.883	446.114
75	650.211	486.264	281.052	294.435	302.242
80	242.017	138.295	148.333	151.679	152.794
85	33.459	37.920	42.381	42.381	42.381
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GLN-4-L150-840-SCHA118-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2070.02	N.A.	15.10
0-30	4443.49	N.A.	32.50
0-40	7320.94	N.A.	53.50
0-60	12028.27	N.A.	87.90
0-80	13624.03	N.A.	99.50
0-90	13689.12	N.A.	100.00
10-90	13157.64	N.A.	96.10
20-40	5250.92	N.A.	38.40
20-50	7875.39	N.A.	57.50
40-70	5888.65	N.A.	43.00
60-80	1595.77	N.A.	11.70
70-80	414.44	N.A.	3.00
80-90	65.09	N.A.	0.50
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	13689.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	531.48
10-20	1538.54
20-30	2373.47
30-40	2877.45
40-50	2624.47
50-60	2082.86
60-70	1181.33
70-80	414.44
80-90	65.09
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-4-L150-840-SCHA118-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	293	293	293	293	286	286	286	286	273	273	273	262	262	262	251	251	251	246
1	272	262	253	244	265	256	248	241	246	239	233	236	231	226	228	223	219	214
2	250	232	217	205	244	227	214	202	219	207	198	211	201	193	204	196	189	184
3	229	206	188	174	224	202	186	172	195	181	169	189	176	166	182	172	163	158
4	211	184	164	149	206	181	163	148	175	159	146	169	156	144	164	152	142	137
5	195	166	145	130	190	163	144	129	158	141	128	153	138	127	149	136	125	120
6	181	150	129	114	176	148	128	114	143	126	113	139	124	112	135	122	111	106
7	168	136	116	102	164	134	115	101	131	113	101	127	112	100	124	110	99	95
8	156	125	105	91	153	123	104	91	120	103	90	117	101	90	114	100	89	85
9	146	115	95	82	143	113	95	82	110	94	82	108	92	81	105	91	81	76
10	137	106	87	75	134	105	87	75	102	86	74	100	85	74	98	84	74	69

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L150-840-SCHA118-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

X=2H	Y=2H	21.2	22.7	21.6	23.0	23.3	17.8	19.3	18.2	19.6	20.0
	3H	22.2	23.6	22.6	23.9	24.2	18.2	19.5	18.6	19.9	20.2
	4H	22.5	23.7	22.9	24.1	24.5	18.4	19.6	18.8	20.0	20.4
	6H	22.6	23.7	23.0	24.1	24.5	18.5	19.6	18.9	20.0	20.4
	8H	22.5	23.6	23.0	24.0	24.4	18.5	19.6	18.9	20.0	20.4
	12H	22.5	23.6	23.0	24.0	24.4	18.5	19.5	18.9	19.9	20.3

UGR Viewed Endwise

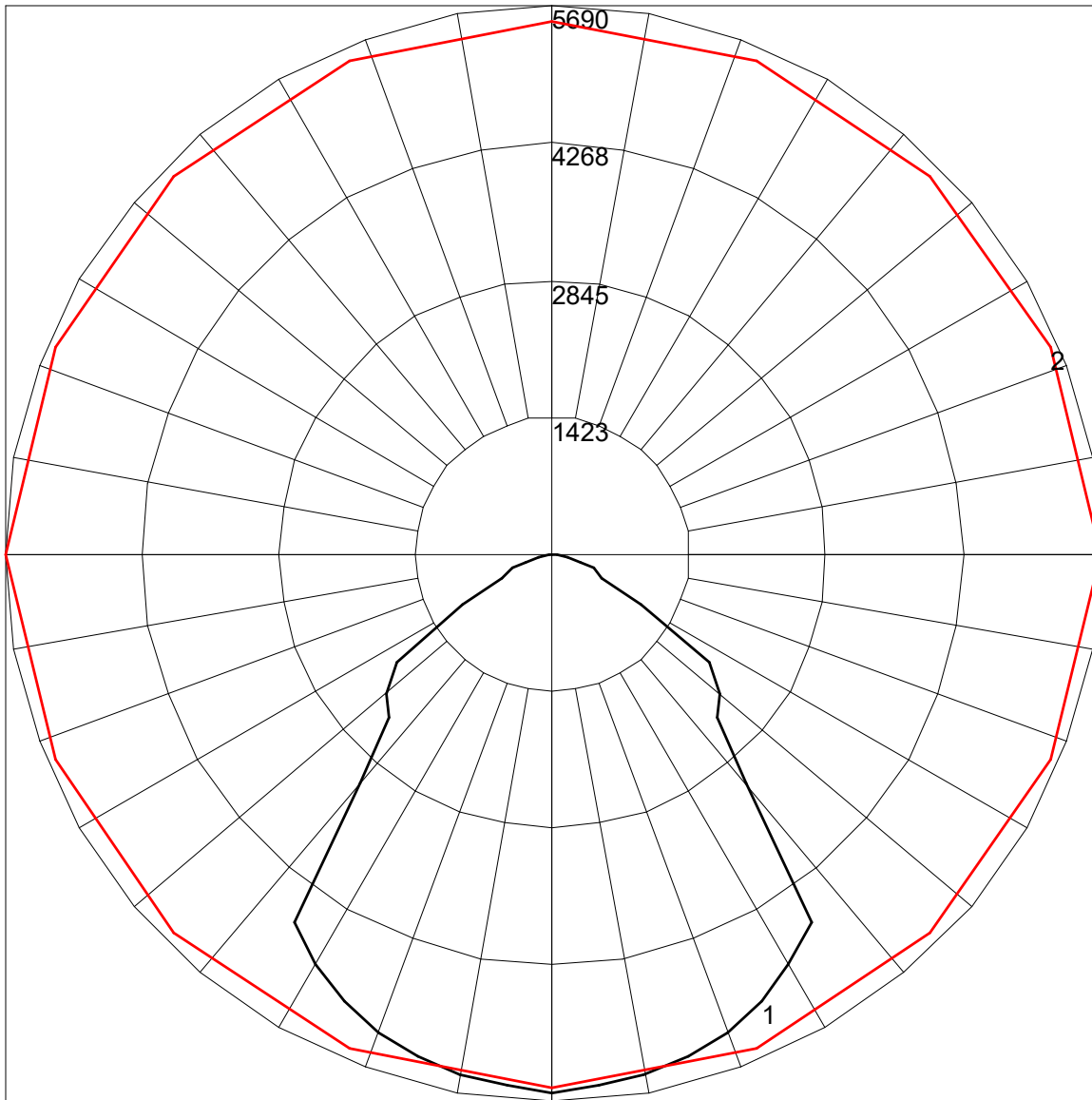
4H	2H	21.4	22.6	21.8	23.0	23.4	18.5	19.8	18.9	20.1	20.5
	3H	22.4	23.5	22.8	23.9	24.3	18.9	20.0	19.4	20.4	20.8
	4H	22.7	23.7	23.2	24.1	24.5	19.1	20.1	19.6	20.5	20.9
	6H	22.9	23.7	23.3	24.1	24.6	19.3	20.1	19.8	20.6	21.0
	8H	22.9	23.6	23.3	24.1	24.5	19.3	20.1	19.8	20.5	21.0
	12H	22.8	23.5	23.3	24.0	24.5	19.3	20.0	19.8	20.5	20.9

8H	4H	22.7	23.4	23.2	23.9	24.4	19.2	20.0	19.7	20.4	20.9
	6H	22.8	23.4	23.3	23.9	24.4	19.4	20.0	19.9	20.5	21.0
	8H	22.8	23.4	23.3	23.9	24.4	19.5	20.0	20.0	20.5	21.0
	12H	22.8	23.3	23.3	23.8	24.3	19.5	20.0	20.0	20.5	21.0

12H	4H	22.7	23.3	23.2	23.8	24.3	19.2	19.9	19.7	20.4	20.8
	6H	22.8	23.3	23.3	23.8	24.3	19.4	20.0	19.9	20.4	21.0
	8H	22.8	23.3	23.3	23.8	24.3	19.5	20.0	20.0	20.5	21.0

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 5690.179 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.)