



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L105-840-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-L105/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	65.5
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	19680	19986	12069
55	18422	11658	12206
65	15301	10799	4781
75	8855	3827	4116
85	1353	1714	1714

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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	3955.955	3955.955	3955.955	3955.955	3955.955
5	4014.177	3945.727	3926.844	3917.403	3914.255
10	3976.411	3909.535	3887.505	3887.505	3887.505
15	3902.454	3845.805	3841.084	3826.135	3818.268
20	3803.319	3757.685	3747.457	3728.574	3729.361
25	3666.418	3642.815	3627.866	3621.571	3615.277
30	3498.046	3478.377	3471.295	3478.377	3474.443
35	3299.776	3280.107	3291.122	3314.725	3312.365
40	3057.447	3029.122	3079.477	2813.543	2199.064
45	2785.219	2774.991	2828.492	1693.161	1708.110
50	2490.961	2478.373	1679.786	1579.078	1591.666
55	2114.878	2147.136	1338.321	1398.904	1401.264
60	1734.861	1752.957	1164.442	1055.079	759.248
65	1294.261	1062.160	913.457	406.768	404.407
70	875.692	607.398	303.699	313.140	314.714
75	458.696	343.038	198.270	207.711	213.219
80	170.732	97.561	104.642	107.003	107.790
85	23.604	26.751	29.898	29.898	29.898
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1460.31	N.A.	15.10
0-30	3134.69	N.A.	32.50
0-40	5164.61	N.A.	53.50
0-60	8485.43	N.A.	87.90
0-80	9611.17	N.A.	99.50
0-90	9657.09	N.A.	100.00
10-90	9282.15	N.A.	96.10
20-40	3704.3	N.A.	38.40
20-50	5555.75	N.A.	57.50
40-70	4154.19	N.A.	43.00
60-80	1125.74	N.A.	11.70
70-80	292.37	N.A.	3.00
80-90	45.92	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	9657.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	374.93
10-20	1085.37
20-30	1674.38
30-40	2029.92
40-50	1851.45
50-60	1469.37
60-70	833.38
70-80	292.37
80-90	45.92
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	207	207	207	207	202	202	202	202	193	193	193	185	185	185	177	177	177	174
1	192	185	178	172	187	181	175	170	173	169	164	167	163	159	161	158	155	151
2	176	164	153	144	172	160	151	143	154	146	139	149	142	136	144	138	133	130
3	162	145	133	122	158	143	131	121	138	128	119	133	124	117	129	121	115	112
4	149	130	116	105	145	128	115	105	123	112	103	120	110	102	116	107	100	97
5	138	117	102	92	134	115	101	91	111	99	90	108	98	89	105	96	88	85
6	127	106	91	81	124	104	90	80	101	89	80	98	87	79	96	86	78	75
7	118	96	82	72	115	95	81	71	92	80	71	90	79	70	87	78	70	67
8	110	88	74	64	108	87	73	64	85	72	64	82	71	63	80	70	63	60
9	103	81	67	58	101	80	67	58	78	66	58	76	65	57	74	64	57	54
10	97	75	62	53	95	74	61	53	72	60	52	71	60	52	69	59	52	49

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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	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

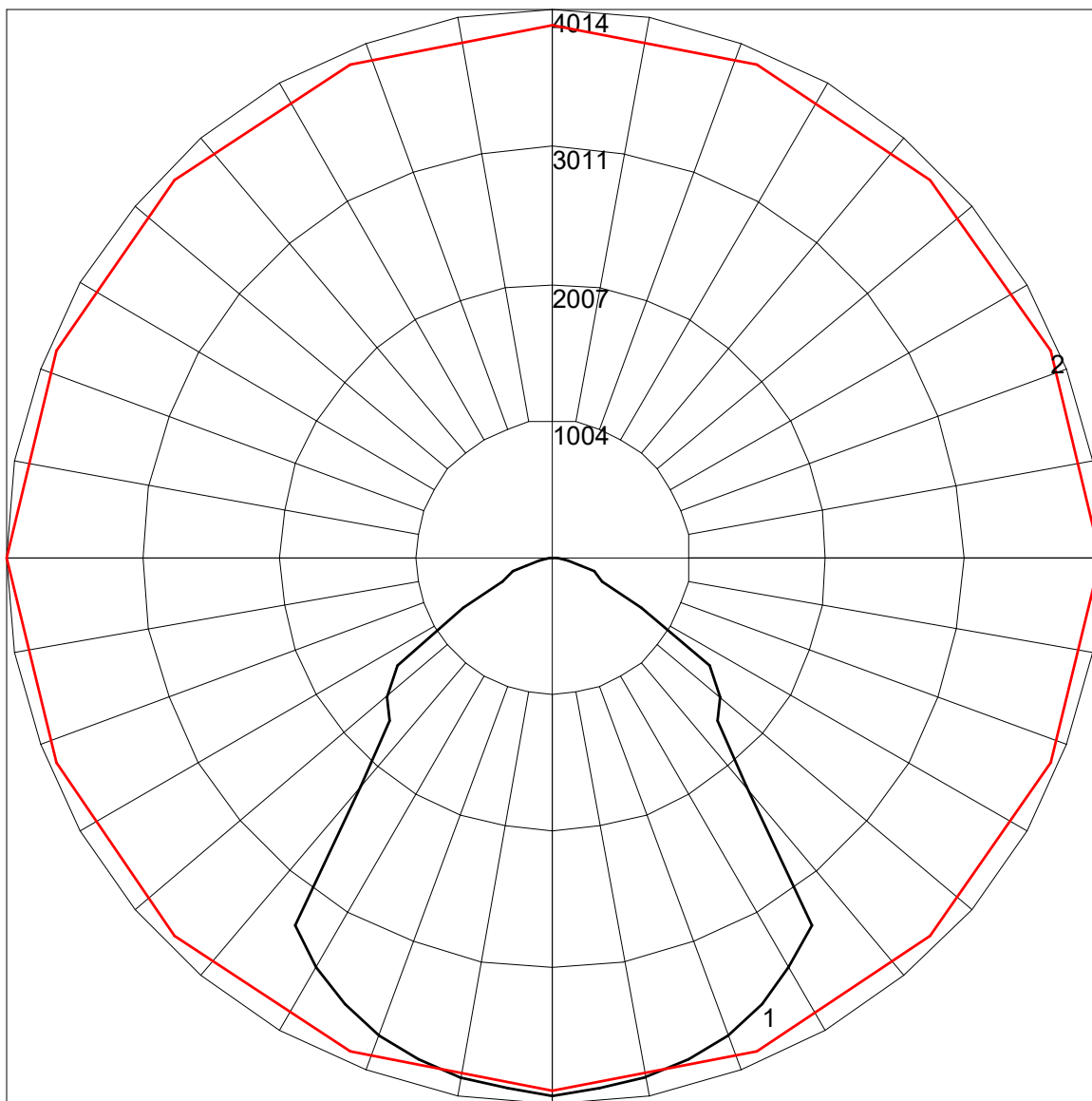
4H	2H	21.4	22.6	21.8	23.0	23.4	18.5	19.8	18.9	20.1	20.5
	3H	22.4	23.5	22.8	23.9	24.3	18.9	20.0	19.4	20.4	20.8
	4H	22.7	23.7	23.2	24.1	24.5	19.1	20.1	19.6	20.5	20.9
	6H	22.9	23.7	23.3	24.1	24.6	19.3	20.1	19.8	20.6	21.0
	8H	22.9	23.6	23.3	24.1	24.5	19.3	20.1	19.8	20.5	21.0
	12H	22.8	23.5	23.3	24.0	24.5	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 = 4014.177 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.)