



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-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-L210/840-DIM-UNV-SAF118-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18888
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	136.5
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	15790	14696	13730
55	14031	13004	11978
65	11872	11073	10097
75	9253	8509	7887
85	5180	5045	4640

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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	8078.394	8078.394	8078.394	8078.394	8078.394
5	8170.587	8038.883	7989.494	7956.568	7935.166
10	8033.944	7897.301	7821.571	7788.645	7749.134
15	7790.291	7633.893	7559.809	7485.726	7437.983
20	7444.568	7302.987	7204.209	7085.675	7060.981
25	7005.006	6871.656	6746.537	6613.187	6529.226
30	6486.422	6343.194	6223.014	6081.432	5949.728
35	5905.278	5821.317	5584.249	5480.533	5312.610
40	5330.719	5205.600	5021.215	4798.964	4713.357
45	4682.077	4509.216	4357.756	4175.017	4071.300
50	4031.789	3919.840	3745.332	3551.069	3485.217
55	3374.915	3304.124	3127.970	2918.890	2881.025
60	2757.552	2683.469	2555.058	2373.965	2263.662
65	2103.971	2059.521	1962.390	1822.454	1789.528
70	1552.461	1542.583	1422.403	1331.857	1317.040
75	1004.243	997.658	923.574	893.941	856.076
80	564.681	579.498	528.462	516.938	479.073
85	189.324	204.141	184.386	158.045	169.569
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2893.03	N.A.	15.30
0-30	5998.15	N.A.	31.80
0-40	9516.19	N.A.	50.40
0-60	15685.32	N.A.	83.00
0-80	18643.49	N.A.	98.70
0-90	18888.34	N.A.	100.00
10-90	18128.68	N.A.	96.00
20-40	6623.16	N.A.	35.10
20-50	9993.86	N.A.	52.90
40-70	8113.89	N.A.	43.00
60-80	2958.17	N.A.	15.70
70-80	1013.42	N.A.	5.40
80-90	244.85	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	18888.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	759.66
10-20	2133.37
20-30	3105.12
30-40	3518.04
40-50	3370.7
50-60	2798.44
60-70	1944.75
70-80	1013.42
80-90	244.85
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	196	196	196	196	191	191	191	191	183	183	183	175	175	175	168	168	168	164
1	180	173	166	160	176	169	163	158	162	157	153	156	152	148	150	147	144	140
2	165	152	141	133	160	149	139	131	143	135	128	138	131	125	133	127	122	119
3	151	135	122	112	147	132	120	111	127	117	109	123	114	107	119	111	105	102
4	139	120	106	96	135	118	105	95	114	103	94	110	100	92	106	98	91	88
5	128	108	94	83	125	106	93	83	103	91	82	99	89	81	96	87	80	77
6	119	98	83	73	116	96	83	73	93	81	72	90	80	72	88	78	71	68
7	110	89	75	65	107	87	74	65	85	73	64	83	72	64	80	71	64	60
8	103	81	68	58	100	80	67	58	78	66	58	76	65	58	74	64	57	54
9	96	75	62	53	94	74	61	53	72	61	52	70	60	52	69	59	52	49
10	90	69	57	48	88	68	56	48	67	56	48	65	55	48	64	54	47	45

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UGR TABLE - CORRECTED

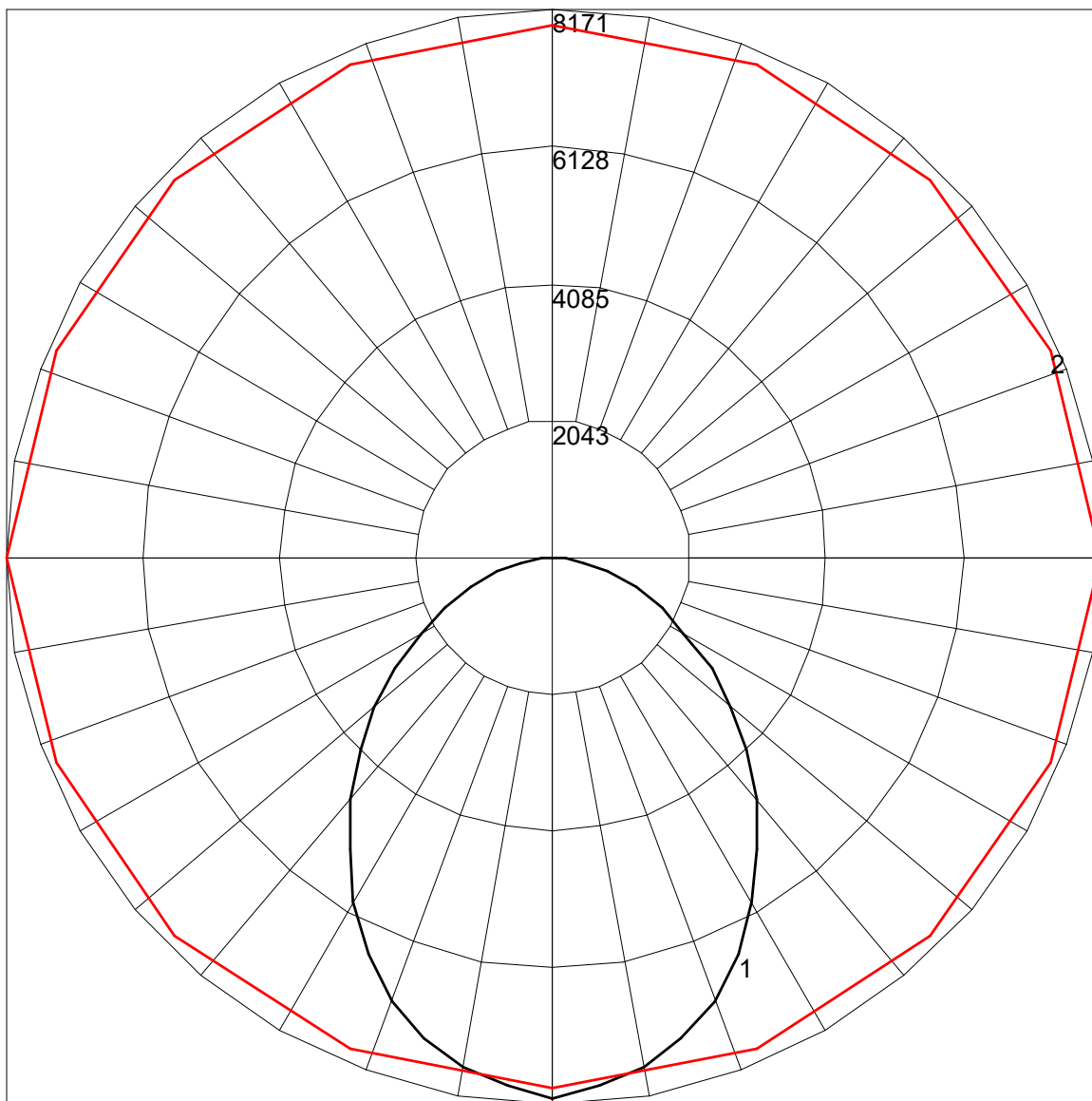
Reflectances

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	19.4	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
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 = 8170.587 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.)