

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L140)-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

[ISSUE DATE] 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-SAF118-(L140)-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	86.09
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	11764	10949	10229
55	10454	9689	8924
65	8845	8250	7523
75	6893	6340	5876
85	3859	3759	3457

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	6018.592	6018.592	6018.592	6018.592	6018.592
5	6087.278	5989.156	5952.360	5927.829	5911.884
10	5985.476	5883.674	5827.253	5802.723	5773.286
15	5803.949	5687.429	5632.235	5577.041	5541.471
20	5546.378	5440.896	5367.304	5278.994	5260.596
25	5218.894	5119.544	5026.328	4926.979	4864.426
30	4832.536	4725.828	4636.291	4530.809	4432.687
35	4399.570	4337.017	4160.396	4083.125	3958.019
40	3971.511	3878.294	3740.923	3575.341	3511.561
45	3488.257	3359.471	3246.630	3110.485	3033.214
50	3003.777	2920.373	2790.360	2645.629	2596.568
55	2514.391	2461.650	2330.411	2174.641	2146.431
60	2054.441	1999.247	1903.578	1768.659	1686.481
65	1567.508	1534.392	1462.026	1357.771	1333.240
70	1156.620	1149.260	1059.724	992.264	981.226
75	748.185	743.278	688.084	666.007	637.797
80	420.700	431.739	393.717	385.131	356.921
85	141.051	152.090	137.372	117.747	126.333
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2155.37	N.A.	15.30
0-30	4468.76	N.A.	31.80
0-40	7089.78	N.A.	50.40
0-60	11685.93	N.A.	83.00
0-80	13889.84	N.A.	98.70
0-90	14072.26	N.A.	100.00
10-90	13506.29	N.A.	96.00
20-40	4934.41	N.A.	35.10
20-50	7445.66	N.A.	52.90
40-70	6045.04	N.A.	43.00
60-80	2203.91	N.A.	15.70
70-80	755.02	N.A.	5.40
80-90	182.42	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	14072.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	565.96
10-20	1589.41
20-30	2313.39
30-40	2621.02
40-50	2511.25
50-60	2084.9
60-70	1448.89
70-80	755.02
80-90	182.42
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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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

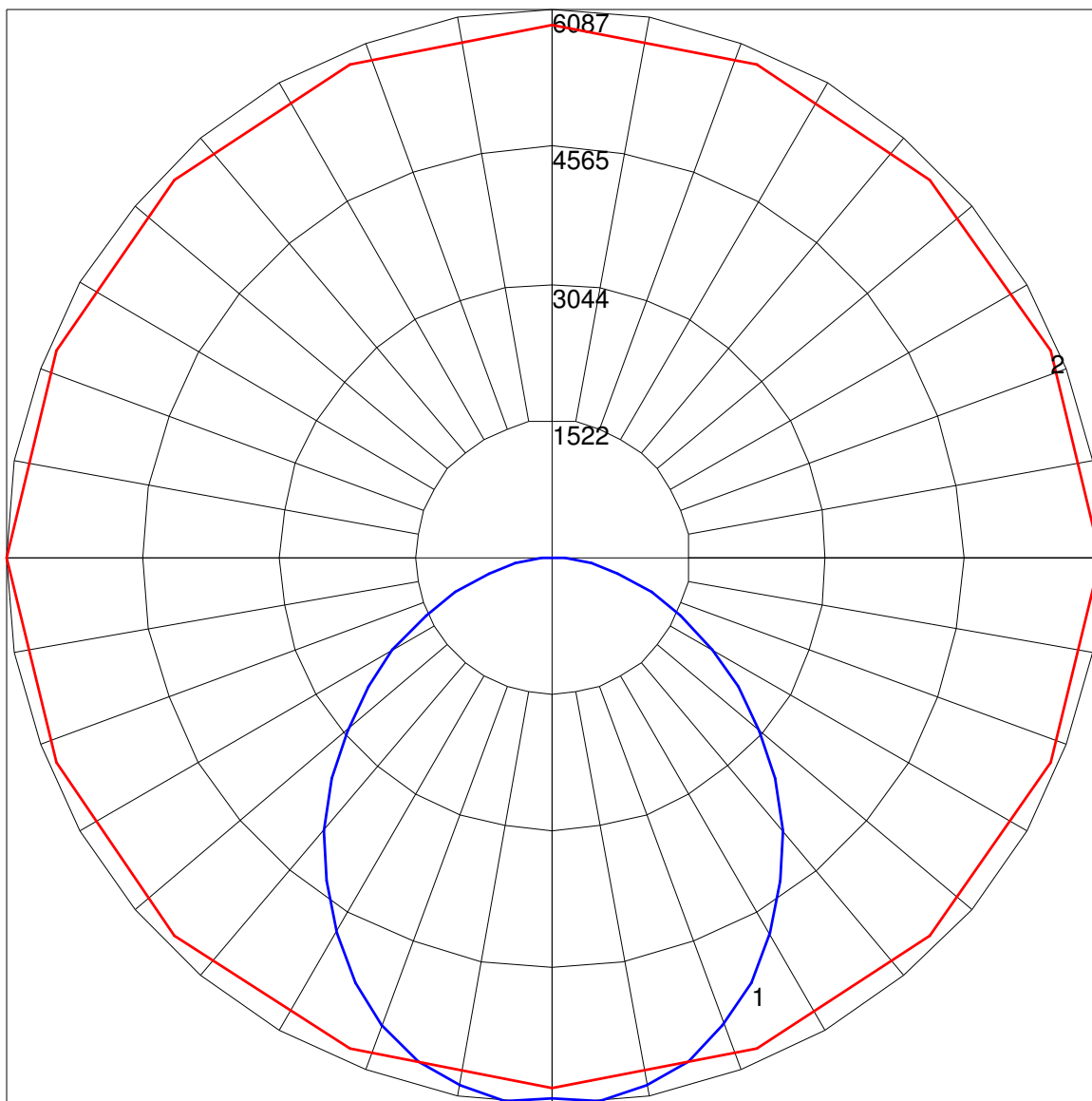
X=2H	Y=2H	20.1	21.7	20.5	22.0	22.3	19.2	20.8	19.6	21.1	21.4
	3H	21.7	23.1	22.0	23.4	23.8	20.7	22.1	21.1	22.4	22.8
	4H	22.2	23.5	22.6	23.9	24.2	21.2	22.5	21.6	22.9	23.3
	6H	22.6	23.8	23.0	24.1	24.5	21.6	22.8	22.0	23.2	23.5
	8H	22.6	23.8	23.1	24.2	24.6	21.7	22.8	22.1	23.2	23.6
	12H	22.7	23.8	23.1	24.2	24.6	21.7	22.8	22.1	23.2	23.6

UGR Viewed Endwise

4H	2H	20.6	21.9	21.0	22.3	22.6	19.8	21.2	20.2	21.5	21.9
	3H	22.3	23.5	22.8	23.9	24.3	21.5	22.6	21.9	23.0	23.4
	4H	23.0	24.0	23.4	24.4	24.8	22.2	23.2	22.6	23.6	24.0
	6H	23.5	24.3	23.9	24.8	25.2	22.6	23.5	23.1	23.9	24.4
	8H	23.6	24.4	24.1	24.9	25.3	22.8	23.6	23.2	24.0	24.5
	12H	23.7	24.4	24.2	24.9	25.4	22.8	23.5	23.3	24.0	24.5
8H	4H	23.2	24.0	23.7	24.4	24.9	22.4	23.3	22.9	23.7	24.2
	6H	23.8	24.4	24.3	24.9	25.4	23.0	23.7	23.5	24.2	24.6
	8H	24.0	24.6	24.5	25.1	25.6	23.2	23.8	23.7	24.3	24.8
	12H	24.1	24.6	24.6	25.1	25.7	23.3	23.8	23.8	24.3	24.9
12H	4H	23.2	23.9	23.7	24.4	24.9	22.5	23.2	22.9	23.7	24.1
	6H	23.8	24.4	24.3	24.9	25.4	23.1	23.7	23.6	24.1	24.7
	8H	24.0	24.6	24.5	25.1	25.6	23.3	23.8	23.8	24.3	24.9

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 6087.278 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)