

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L150)-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] 6-27-2023

[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-(L150)-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	92.77
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	12606	11733	10962
55	11202	10383	9563
65	9478	8840	8062
75	7387	6794	6297
85	4136	4028	3704

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	6449.711	6449.711	6449.711	6449.711	6449.711
<b>5</b>	6523.317	6418.166	6378.734	6352.447	6335.360
<b>10</b>	6414.223	6305.129	6244.667	6218.379	6186.833
<b>15</b>	6219.693	6094.826	6035.679	5976.531	5938.414
<b>20</b>	5943.671	5830.634	5751.770	5657.134	5637.418
<b>25</b>	5592.729	5486.264	5386.370	5279.904	5212.871
<b>30</b>	5178.696	5064.344	4968.394	4855.356	4750.205
<b>35</b>	4714.717	4647.683	4458.411	4375.604	4241.536
<b>40</b>	4255.995	4156.101	4008.889	3831.447	3763.098
<b>45</b>	3738.125	3600.114	3479.190	3333.293	3250.486
<b>50</b>	3218.941	3129.562	2990.237	2835.139	2782.564
<b>55</b>	2694.499	2637.981	2497.341	2330.413	2300.182
<b>60</b>	2201.603	2142.456	2039.933	1895.350	1807.286
<b>65</b>	1679.790	1644.302	1566.753	1455.030	1428.742
<b>70</b>	1239.470	1231.583	1135.633	1063.341	1051.512
<b>75</b>	801.778	796.520	737.373	713.714	683.483
<b>80</b>	450.836	462.665	421.919	412.718	382.487
<b>85</b>	151.155	162.984	147.212	126.181	135.382
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2309.76	N.A.	15.30
0-30	4788.86	N.A.	31.80
0-40	7597.63	N.A.	50.40
0-60	12523.01	N.A.	83.00
0-80	14884.79	N.A.	98.70
0-90	15080.27	N.A.	100.00
10-90	14473.77	N.A.	96.00
20-40	5287.87	N.A.	35.10
20-50	7979.00	N.A.	52.90
40-70	6478.05	N.A.	43.00
60-80	2361.78	N.A.	15.70
70-80	809.10	N.A.	5.40
80-90	195.49	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	15080.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	606.50
10-20	1703.26
20-30	2479.1
30-40	2808.77
40-50	2691.13
50-60	2234.25
60-70	1552.67
70-80	809.10
80-90	195.49
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	20.3	21.9	20.7	22.2	22.5	19.4	21.0	19.8	21.3	21.6
	3H	21.9	23.3	22.2	23.6	24.0	20.9	22.3	21.3	22.6	23.0
	4H	22.4	23.7	22.8	24.1	24.4	21.4	22.7	21.8	23.1	23.5
	6H	22.8	24.0	23.2	24.3	24.7	21.8	23.0	22.2	23.4	23.7
	8H	22.8	24.0	23.3	24.4	24.8	21.9	23.0	22.3	23.4	23.8
	12H	22.9	24.0	23.3	24.4	24.8	21.9	23.0	22.3	23.4	23.8

### UGR Viewed Endwise

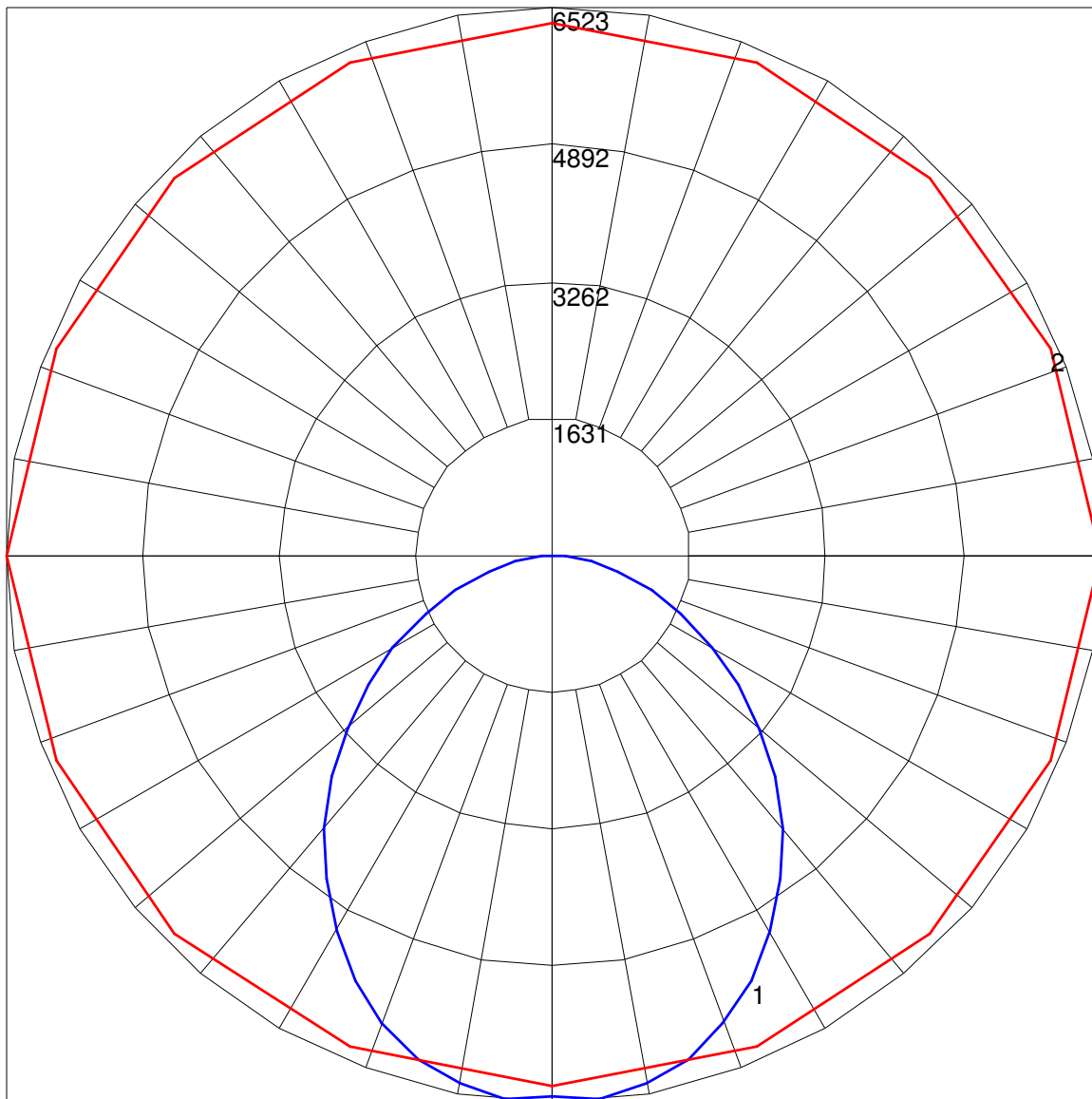
4H	2H	20.8	22.1	21.2	22.5	22.8	20.0	21.4	20.4	21.7	22.1
	3H	22.5	23.7	23.0	24.1	24.5	21.7	22.8	22.1	23.2	23.6
	4H	23.2	24.2	23.6	24.6	25.0	22.4	23.4	22.8	23.8	24.2
	6H	23.7	24.5	24.1	25.0	25.4	22.8	23.7	23.3	24.1	24.6
	8H	23.8	24.6	24.3	25.1	25.5	23.0	23.8	23.4	24.2	24.7
	12H	23.9	24.6	24.4	25.1	25.6	23.0	23.7	23.5	24.2	24.7

8H	4H	23.4	24.2	23.9	24.6	25.1	22.6	23.5	23.1	23.9	24.4
	6H	24.0	24.6	24.5	25.1	25.6	23.2	23.9	23.7	24.4	24.8
	8H	24.2	24.8	24.7	25.3	25.8	23.4	24.0	23.9	24.5	25.0
	12H	24.3	24.8	24.8	25.3	25.9	23.5	24.0	24.0	24.5	25.1

12H	4H	23.4	24.1	23.9	24.6	25.1	22.7	23.4	23.1	23.9	24.3
	6H	24.0	24.6	24.5	25.1	25.6	23.3	23.9	23.8	24.3	24.9
	8H	24.2	24.8	24.7	25.3	25.8	23.5	24.0	24.0	24.5	25.1

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 6523.317 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.)