

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L143)-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] 06-28-2023

[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-(L143)-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	88.3
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	12045	11210	10473
55	10703	9920	9137
65	9056	8447	7702
75	7058	6491	6017
85	3951	3848	3539

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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>
<b>0</b>	6162.299	6162.299	6162.299	6162.299	6162.299
<b>5</b>	6232.625	6132.159	6094.485	6069.368	6053.043
<b>10</b>	6128.392	6024.159	5966.391	5941.275	5911.135
<b>15</b>	5942.531	5823.228	5766.716	5710.204	5673.786
<b>20</b>	5678.809	5570.809	5495.460	5405.041	5386.203
<b>25</b>	5343.506	5241.784	5146.342	5044.621	4980.574
<b>30</b>	4947.923	4838.667	4746.992	4638.992	4538.526
<b>35</b>	4504.619	4440.572	4259.735	4180.618	4052.525
<b>40</b>	4066.339	3970.897	3830.245	3660.709	3595.407
<b>45</b>	3571.546	3439.686	3324.150	3184.754	3105.638
<b>50</b>	3075.498	2990.103	2856.986	2708.799	2658.567
<b>55</b>	2574.427	2520.427	2386.054	2226.565	2197.682
<b>60</b>	2103.495	2046.983	1949.030	1810.890	1726.750
<b>65</b>	1604.935	1571.028	1496.935	1390.191	1365.074
<b>70</b>	1184.236	1176.701	1085.027	1015.957	1004.654
<b>75</b>	766.049	761.026	704.514	681.909	653.025
<b>80</b>	430.746	442.048	403.118	394.327	365.443
<b>85</b>	144.419	155.721	140.652	120.559	129.349
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L143)-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2206.84	N.A.	15.30
0-30	4575.46	N.A.	31.80
0-40	7259.06	N.A.	50.40
0-60	11964.96	N.A.	83.00
0-80	14221.49	N.A.	98.70
0-90	14408.26	N.A.	100.00
10-90	13828.79	N.A.	96.00
20-40	5052.23	N.A.	35.10
20-50	7623.44	N.A.	52.90
40-70	6189.38	N.A.	43.00
60-80	2256.53	N.A.	15.70
70-80	773.05	N.A.	5.40
80-90	186.77	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	14408.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	579.48
10-20	1627.36
20-30	2368.62
30-40	2683.6
40-50	2571.21
50-60	2134.68
60-70	1483.48
70-80	773.05
80-90	186.77
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	20.2	21.8	20.6	22.1	22.4	19.3	20.9	19.7	21.2	21.5
	3H	21.8	23.2	22.1	23.5	23.9	20.8	22.2	21.2	22.5	22.9
	4H	22.3	23.6	22.7	24.0	24.3	21.3	22.6	21.7	23.0	23.4
	6H	22.7	23.9	23.1	24.2	24.6	21.7	22.9	22.1	23.3	23.6
	8H	22.7	23.9	23.2	24.3	24.7	21.8	22.9	22.2	23.3	23.7
	12H	22.8	23.9	23.2	24.3	24.7	21.8	22.9	22.2	23.3	23.7

### UGR Viewed Endwise

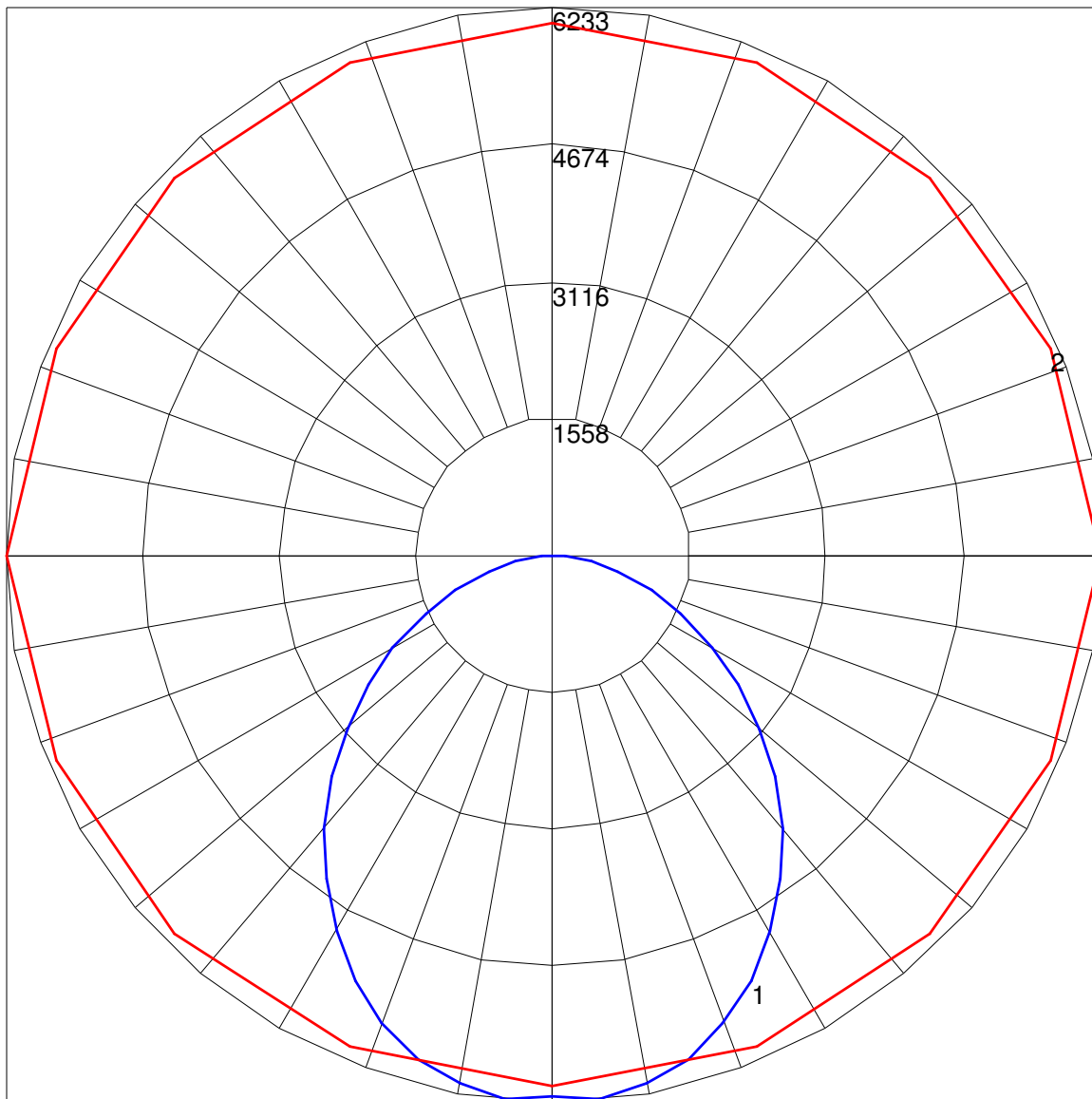
4H	2H	20.7	22.0	21.1	22.4	22.7	19.9	21.3	20.3	21.6	22.0
	3H	22.4	23.6	22.9	24.0	24.4	21.6	22.7	22.0	23.1	23.5
	4H	23.1	24.1	23.5	24.5	24.9	22.3	23.3	22.7	23.7	24.1
	6H	23.6	24.4	24.0	24.9	25.3	22.7	23.6	23.2	24.0	24.5
	8H	23.7	24.5	24.2	25.0	25.4	22.9	23.7	23.3	24.1	24.6
	12H	23.8	24.5	24.3	25.0	25.5	22.9	23.6	23.4	24.1	24.6

8H	4H	23.3	24.1	23.8	24.5	25.0	22.5	23.4	23.0	23.8	24.3
	6H	23.9	24.5	24.4	25.0	25.5	23.1	23.8	23.6	24.3	24.7
	8H	24.1	24.7	24.6	25.2	25.7	23.3	23.9	23.8	24.4	24.9
	12H	24.2	24.7	24.7	25.2	25.8	23.4	23.9	23.9	24.4	25.0

12H	4H	23.3	24.0	23.8	24.5	25.0	22.6	23.3	23.0	23.8	24.2
	6H	23.9	24.5	24.4	25.0	25.5	23.2	23.8	23.7	24.2	24.8
	8H	24.1	24.7	24.6	25.2	25.7	23.4	23.9	23.9	24.4	25.0

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 6232.625 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.)