

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L145)-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-(L145)-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14576
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
Total Luminaire Watts	89.41
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	12185	11341	10596
55	10828	10036	9243
65	9161	8545	7792
75	7140	6567	6087
85	3997	3893	3580

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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>	6234.152	6234.152	6234.152	6234.152	6234.152
<b>5</b>	6305.298	6203.661	6165.547	6140.138	6123.622
<b>10</b>	6199.850	6094.401	6035.960	6010.551	5980.060
<b>15</b>	6011.821	5891.127	5833.957	5776.786	5739.943
<b>20</b>	5745.024	5635.765	5559.537	5468.064	5449.007
<b>25</b>	5405.811	5302.904	5206.349	5103.442	5038.648
<b>30</b>	5005.616	4895.086	4802.342	4693.083	4591.446
<b>35</b>	4557.143	4492.350	4309.404	4229.365	4099.778
<b>40</b>	4113.753	4017.198	3874.906	3703.394	3637.330
<b>45</b>	3613.191	3479.793	3362.910	3221.889	3141.850
<b>50</b>	3111.359	3024.968	2890.299	2740.384	2689.566
<b>55</b>	2604.445	2549.815	2413.876	2252.527	2223.307
<b>60</b>	2128.022	2070.851	1971.755	1832.005	1746.884
<b>65</b>	1623.649	1589.347	1514.389	1406.400	1380.991
<b>70</b>	1198.045	1190.422	1097.678	1027.803	1016.369
<b>75</b>	774.981	769.899	712.729	689.860	660.640
<b>80</b>	435.768	447.202	407.818	398.925	369.704
<b>85</b>	146.103	157.537	142.292	121.964	130.857
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2232.57	N.A.	15.30
0-30	4628.81	N.A.	31.80
0-40	7343.71	N.A.	50.40
0-60	12104.47	N.A.	83.00
0-80	14387.31	N.A.	98.70
0-90	14576.26	N.A.	100.00
10-90	13990.03	N.A.	96.00
20-40	5111.14	N.A.	35.10
20-50	7712.33	N.A.	52.90
40-70	6261.54	N.A.	43.00
60-80	2282.84	N.A.	15.70
70-80	782.06	N.A.	5.40
80-90	188.95	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	14576.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	586.23
10-20	1646.33
20-30	2396.24
30-40	2714.9
40-50	2601.19
50-60	2159.57
60-70	1500.78
70-80	782.06
80-90	188.95
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

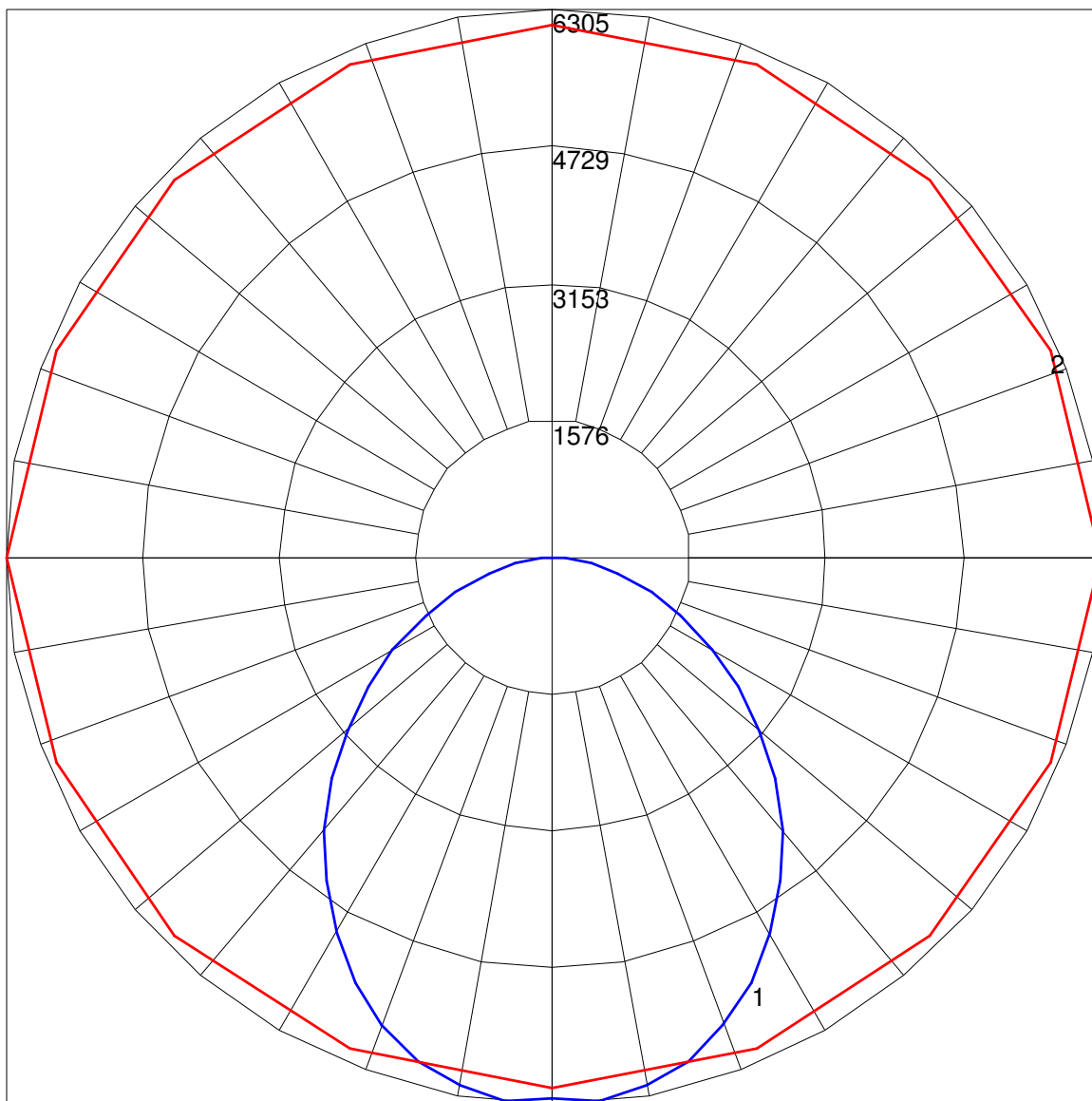
X=2H	Y=2H	20.2	21.8	20.6	22.1	22.4	19.3	20.9	19.7	21.2	21.5
	3H	21.8	23.2	22.1	23.5	23.9	20.8	22.2	21.2	22.5	22.9
	4H	22.3	23.6	22.7	24.0	24.3	21.3	22.6	21.7	23.0	23.4
	6H	22.7	23.9	23.1	24.2	24.6	21.7	22.9	22.1	23.3	23.6
	8H	22.7	23.9	23.2	24.3	24.7	21.8	22.9	22.2	23.3	23.7
	12H	22.8	23.9	23.2	24.3	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 = 6305.298 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.)