



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L200)-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] 28-JUN-2023

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8 FT NARROW INDUSTRIAL LED LUMINAIRE

[MORE] WHITE HOUSING w/WHITE REFL & FROSTED ACRYLIC LENS

[LUMCAT] GLN-8-L210-840-SAF118-(L200)-DIM-UNV

[LAMPCAT] HLMX 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17852
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	129.2
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)	8.00 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	14942	13907	12993
55	13278	12307	11335
65	11235	10479	9556
75	8756	8053	7464
85	4902	4774	4391

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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	7635.292	7635.292	7635.292	7635.292	7635.292
5	7722.428	7597.948	7551.268	7520.148	7499.920
10	7593.280	7464.132	7392.556	7361.436	7324.092
15	7362.992	7215.172	7145.152	7075.132	7030.008
20	7036.232	6902.416	6809.056	6697.024	6673.684
25	6620.780	6494.744	6376.488	6250.452	6171.096
30	6130.640	5995.268	5881.680	5747.864	5623.384
35	5581.372	5502.016	5277.952	5179.924	5021.212
40	5038.328	4920.072	4745.800	4535.740	4454.828
45	4425.264	4261.884	4118.732	3946.016	3847.988
50	3810.644	3704.836	3539.900	3356.292	3294.052
55	3189.800	3122.892	2956.400	2758.788	2723.000
60	2606.300	2536.280	2414.912	2243.752	2139.500
65	1988.568	1946.556	1854.752	1722.492	1691.372
70	1467.308	1457.972	1344.384	1258.804	1244.800
75	949.160	942.936	872.916	844.908	809.120
80	533.708	547.712	499.476	488.584	452.796
85	178.940	192.944	174.272	149.376	160.268
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2734.34	N.A.	15.30
0-30	5669.15	N.A.	31.80
0-40	8994.22	N.A.	50.40
0-60	14824.98	N.A.	83.00
0-80	17620.89	N.A.	98.70
0-90	17852.31	N.A.	100.00
10-90	17134.32	N.A.	96.00
20-40	6259.88	N.A.	35.10
20-50	9445.69	N.A.	52.90
40-70	7668.84	N.A.	43.00
60-80	2795.92	N.A.	15.70
70-80	957.83	N.A.	5.40
80-90	231.42	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	17852.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	717.99
10-20	2016.35
20-30	2934.8
30-40	3325.07
40-50	3185.81
50-60	2644.94
60-70	1838.08
70-80	957.83
80-90	231.42
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	20.9	22.5	21.3	22.8	23.1	20.0	21.6	20.4	21.9	22.2
	3H	22.5	23.9	22.8	24.2	24.6	21.5	22.9	21.9	23.2	23.6
	4H	23.0	24.3	23.4	24.7	25.1	22.0	23.3	22.4	23.7	24.1
	6H	23.4	24.6	23.8	24.9	25.3	22.4	23.6	22.8	24.0	24.4
	8H	23.4	24.6	23.9	25.0	25.4	22.5	23.6	22.9	24.0	24.4
	12H	23.5	24.6	23.9	25.0	25.4	22.5	23.6	22.9	24.0	24.4

UGR Viewed Endwise

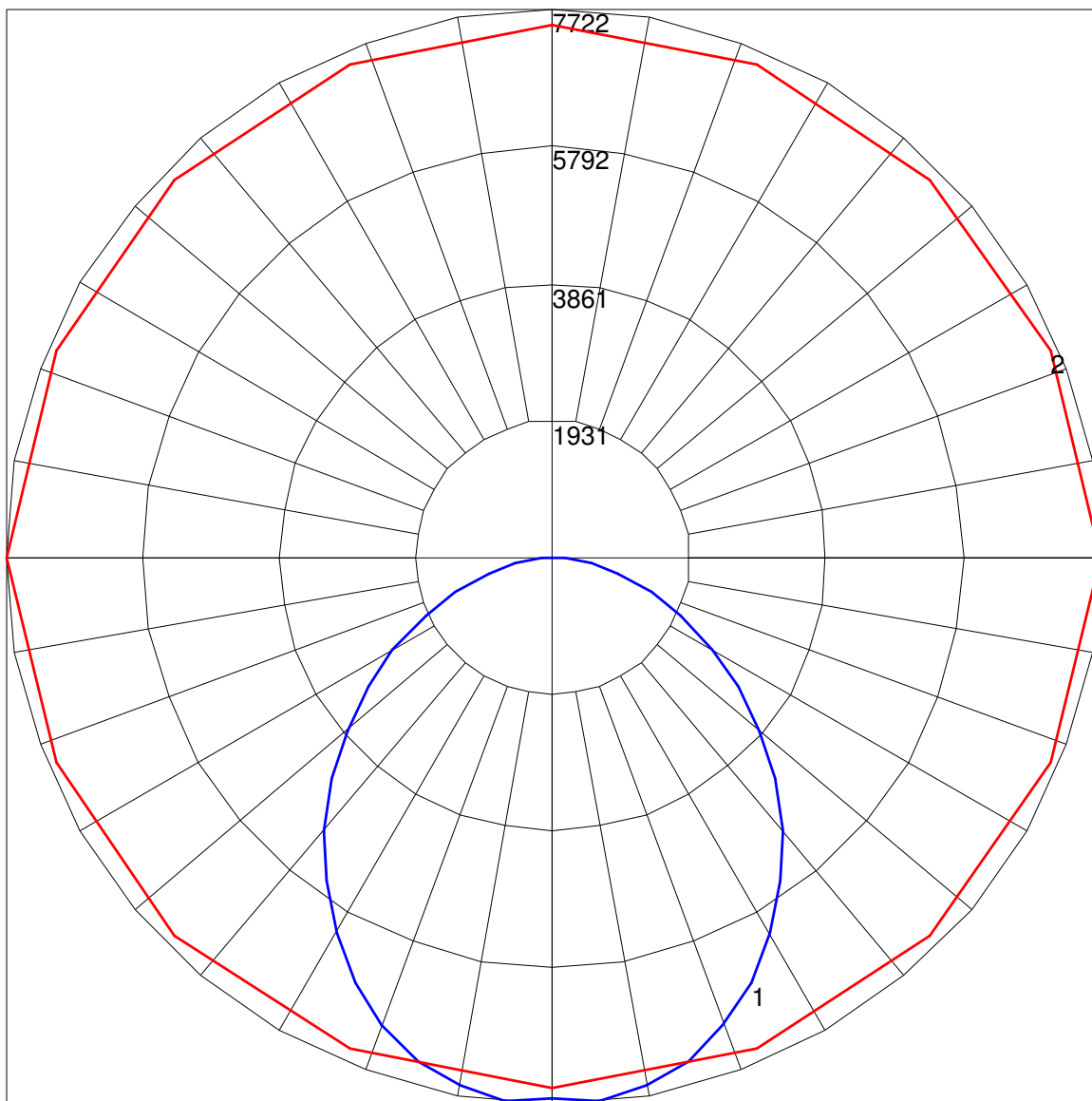
4H	2H	21.4	22.7	21.8	23.1	23.4	20.7	22.0	21.1	22.3	22.7
	3H	23.2	24.3	23.6	24.7	25.1	22.3	23.4	22.7	23.8	24.2
	4H	23.8	24.8	24.2	25.2	25.6	23.0	24.0	23.4	24.4	24.8
	6H	24.3	25.1	24.7	25.6	26.0	23.4	24.3	23.9	24.7	25.2
	8H	24.4	25.2	24.9	25.7	26.1	23.6	24.4	24.0	24.8	25.3
	12H	24.5	25.2	25.0	25.7	26.2	23.6	24.4	24.1	24.8	25.3

8H	4H	24.0	24.8	24.5	25.2	25.7	23.2	24.1	23.7	24.5	25.0
	6H	24.6	25.2	25.1	25.7	26.2	23.8	24.5	24.3	25.0	25.4
	8H	24.8	25.4	25.3	25.9	26.4	24.0	24.6	24.5	25.1	25.6
	12H	24.9	25.4	25.4	25.9	26.5	24.1	24.6	24.6	25.1	25.7

12H	4H	24.0	24.7	24.5	25.2	25.7	23.3	24.0	23.8	24.5	24.9
	6H	24.6	25.2	25.1	25.7	26.2	23.9	24.5	24.4	24.9	25.5
	8H	24.8	25.4	25.3	25.9	26.4	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 7722.428 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.)