

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-SAF118-(L155)-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-(L155)-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	94.33
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	13029	12126	11329
55	11578	10730	9883
65	9796	9137	8332
75	7635	7021	6508
85	4274	4163	3828

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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	6665.703	6665.703	6665.703	6665.703	6665.703
5	6741.774	6633.101	6592.349	6565.181	6547.522
10	6629.026	6516.278	6453.792	6426.624	6394.022
15	6427.982	6298.933	6237.805	6176.677	6137.283
20	6142.717	6025.894	5944.389	5846.584	5826.208
25	5780.022	5669.991	5566.752	5456.721	5387.442
30	5352.124	5233.942	5134.779	5017.956	4909.283
35	4872.606	4803.327	4607.717	4522.137	4383.579
40	4398.522	4295.283	4143.141	3959.756	3889.119
45	3863.310	3720.677	3595.703	3444.920	3359.341
50	3326.739	3234.367	3090.376	2930.084	2875.748
55	2784.734	2726.323	2580.973	2408.456	2377.212
60	2275.332	2214.203	2108.248	1958.823	1867.810
65	1736.044	1699.367	1619.221	1503.757	1476.588
70	1280.978	1272.827	1173.664	1098.951	1086.726
75	828.628	823.195	762.066	737.615	706.372
80	465.934	478.159	436.049	426.540	395.296
85	156.217	168.442	152.142	130.407	139.916
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2387.11	N.A.	15.30
0-30	4949.23	N.A.	31.80
0-40	7852.06	N.A.	50.40
0-60	12942.39	N.A.	83.00
0-80	15383.26	N.A.	98.70
0-90	15585.29	N.A.	100.00
10-90	14958.47	N.A.	96.00
20-40	5464.95	N.A.	35.10
20-50	8246.2	N.A.	52.90
40-70	6694.99	N.A.	43.00
60-80	2440.87	N.A.	15.70
70-80	836.20	N.A.	5.40
80-90	202.03	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	15585.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	626.82
10-20	1760.3
20-30	2562.12
30-40	2902.83
40-50	2781.25
50-60	2309.07
60-70	1604.67
70-80	836.20
80-90	202.03
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

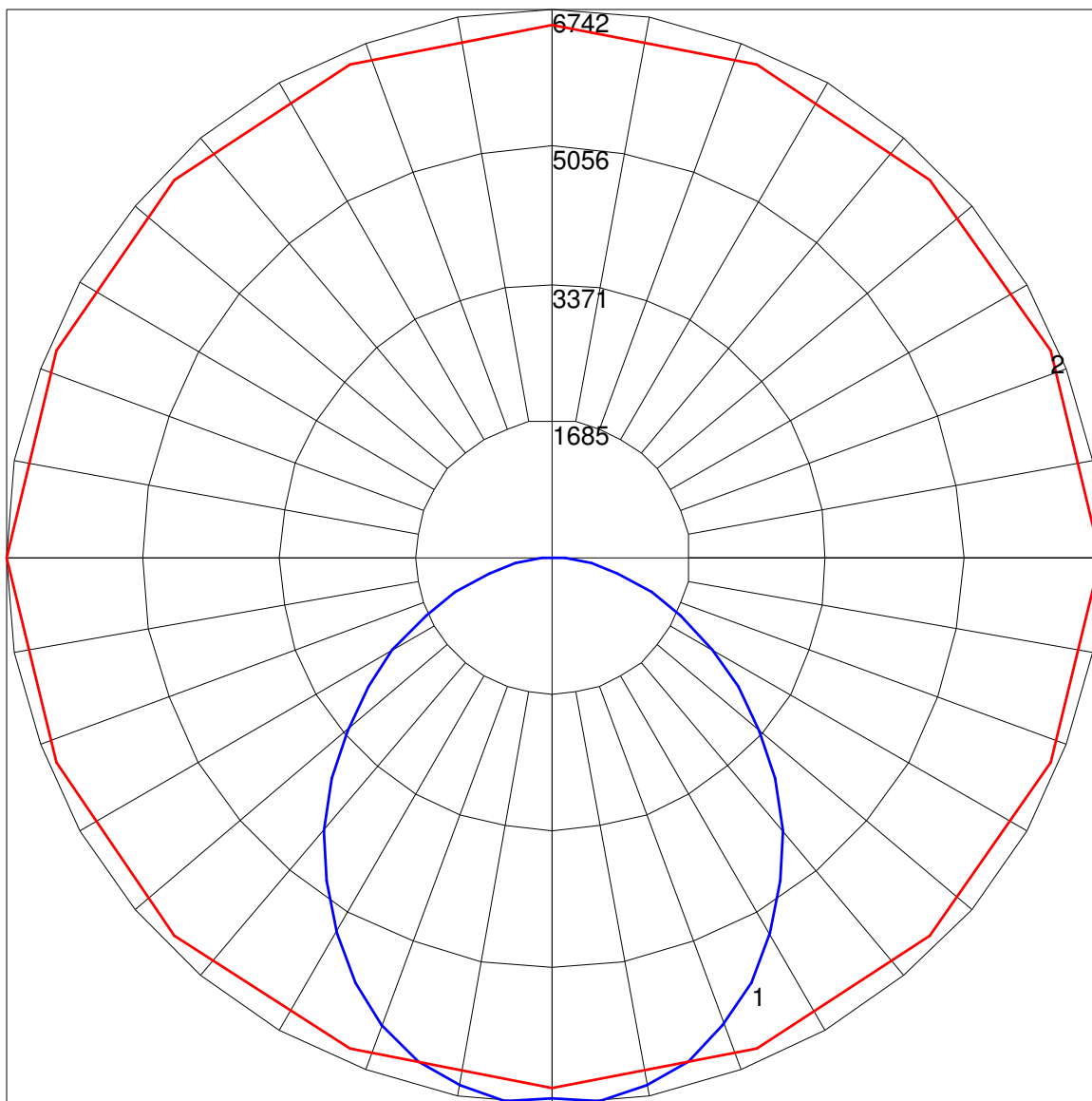
X=2H	Y=2H	20.4	22.0	20.8	22.3	22.6	19.5	21.1	19.9	21.4	21.7
	3H	22.0	23.4	22.3	23.7	24.1	21.0	22.4	21.4	22.7	23.1
	4H	22.5	23.8	22.9	24.2	24.5	21.5	22.8	21.9	23.2	23.6
	6H	22.9	24.1	23.3	24.4	24.8	21.9	23.1	22.3	23.5	23.8
	8H	22.9	24.1	23.4	24.5	24.9	22.0	23.1	22.4	23.5	23.9
	12H	23.0	24.1	23.4	24.5	24.9	22.0	23.1	22.4	23.5	23.9

UGR Viewed Endwise

4H	2H	20.9	22.2	21.3	22.6	22.9	20.1	21.5	20.5	21.8	22.2
	3H	22.6	23.8	23.1	24.2	24.6	21.8	22.9	22.2	23.3	23.7
	4H	23.3	24.3	23.7	24.7	25.1	22.5	23.5	22.9	23.9	24.3
	6H	23.8	24.6	24.2	25.1	25.5	22.9	23.8	23.4	24.2	24.7
	8H	23.9	24.7	24.4	25.2	25.6	23.1	23.9	23.5	24.3	24.8
	12H	24.0	24.7	24.5	25.2	25.7	23.1	23.8	23.6	24.3	24.8
8H	4H	23.5	24.3	24.0	24.7	25.2	22.7	23.6	23.2	24.0	24.5
	6H	24.1	24.7	24.6	25.2	25.7	23.3	24.0	23.8	24.5	24.9
	8H	24.3	24.9	24.8	25.4	25.9	23.5	24.1	24.0	24.6	25.1
	12H	24.4	24.9	24.9	25.4	26.0	23.6	24.1	24.1	24.6	25.2
12H	4H	23.5	24.2	24.0	24.7	25.2	22.8	23.5	23.2	24.0	24.4
	6H	24.1	24.7	24.6	25.2	25.7	23.4	24.0	23.9	24.4	25.0
	8H	24.3	24.9	24.8	25.4	25.9	23.6	24.1	24.1	24.6	25.2

Maximum UGR = 26.0

POLAR GRAPH



Maximum Candela = 6741.774 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.)