



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L105-840-SAF118-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] 15-OCT-2020

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

[LUMINAIRE] LED 22" ARRAYS 1X4' NARROW INDUSTRIAL LUMINAIRE

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

[LUMCAT] GLN-4-L105/840-DIM-UNV-SAF118-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9445
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	65.3
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)	3.82 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	16543	15397	14385
55	14701	13625	12549
65	12438	11601	10579
75	9694	8915	8264
85	5427	5286	4861

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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	4039.625	4039.625	4039.625	4039.625	4039.625
5	4085.726	4019.867	3995.170	3978.705	3968.003
10	4017.397	3949.068	3911.200	3894.735	3874.977
15	3895.558	3817.351	3780.305	3743.259	3719.385
20	3722.678	3651.880	3602.486	3543.213	3530.864
25	3502.874	3436.192	3373.626	3306.944	3264.958
30	3243.554	3171.933	3111.836	3041.038	2975.179
35	2952.952	2910.966	2792.420	2740.556	2656.586
40	2665.642	2603.076	2510.873	2399.736	2356.928
45	2341.286	2254.846	2179.109	2087.729	2035.865
50	2016.108	1960.128	1872.864	1775.722	1742.793
55	1687.636	1652.237	1564.151	1459.599	1440.665
60	1378.922	1341.877	1277.664	1187.108	1131.951
65	1052.097	1029.870	981.299	911.323	894.859
70	776.313	771.373	711.277	665.999	658.590
75	502.175	498.882	461.836	447.018	428.083
80	282.370	289.779	264.259	258.496	239.562
85	94.672	102.081	92.203	79.031	84.793
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1446.67	N.A.	15.30
0-30	2999.39	N.A.	31.80
0-40	4758.6	N.A.	50.40
0-60	7843.49	N.A.	83.00
0-80	9322.73	N.A.	98.70
0-90	9445.17	N.A.	100.00
10-90	9065.3	N.A.	96.00
20-40	3311.93	N.A.	35.10
20-50	4997.46	N.A.	52.90
40-70	4057.37	N.A.	43.00
60-80	1479.24	N.A.	15.70
70-80	506.76	N.A.	5.40
80-90	122.44	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	9445.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	379.87
10-20	1066.8
20-30	1552.72
30-40	1759.21
40-50	1685.53
50-60	1399.37
60-70	972.48
70-80	506.76
80-90	122.44
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	209	209	209	209	204	204	204	204	195	195	195	187	187	187	179	179	179	176
1	193	185	178	171	188	181	174	169	173	168	163	167	162	158	160	157	154	150
2	176	163	151	142	172	159	149	140	153	144	137	147	140	134	142	136	131	127
3	161	144	130	119	157	141	129	118	136	125	116	131	122	114	127	119	112	109
4	148	128	114	102	145	126	112	102	122	110	100	118	107	99	114	105	98	94
5	137	115	100	89	133	113	99	89	110	97	88	106	95	87	103	93	86	82
6	127	104	89	78	124	103	88	78	100	87	77	97	85	77	94	84	76	72
7	118	95	80	70	115	94	79	69	91	78	69	88	77	68	86	76	68	65
8	110	87	72	63	107	86	72	62	83	71	62	81	70	62	79	69	61	58
9	103	80	66	57	101	79	66	56	77	65	56	75	64	56	73	63	56	52
10	97	74	61	52	95	73	60	51	71	59	51	70	59	51	68	58	51	48

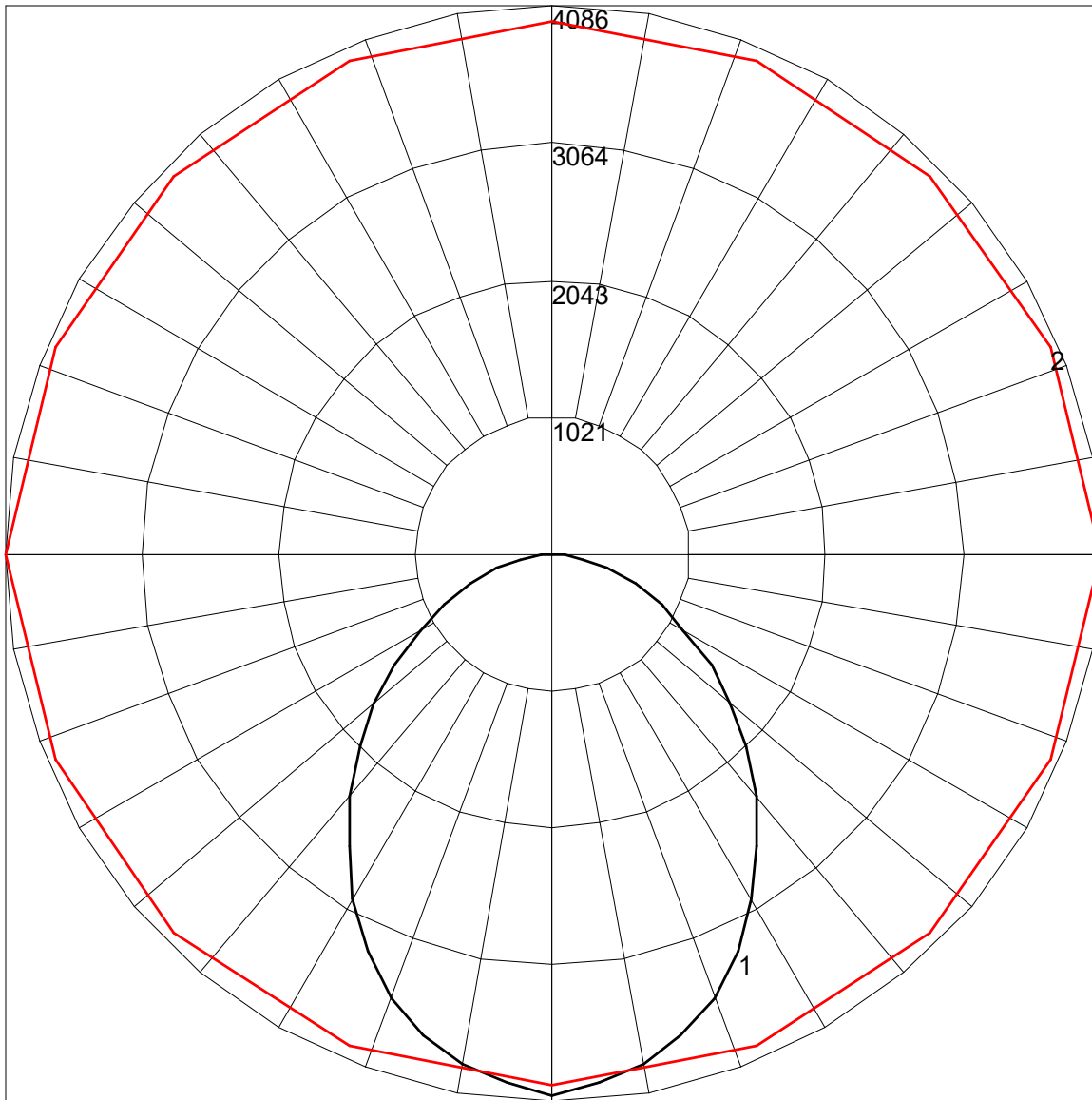
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.9	19.7	21.2	21.5	18.4	19.9	18.7	20.2	20.6
	3H	20.8	22.3	21.2	22.6	22.9	19.9	21.3	20.2	21.6	22.0
	4H	21.4	22.7	21.8	23.0	23.4	20.4	21.7	20.8	22.1	22.4
	6H	21.7	22.9	22.1	23.3	23.7	20.7	22.0	21.2	22.3	22.7
	8H	21.8	23.0	22.2	23.4	23.8	20.8	22.0	21.3	22.4	22.8
	12H	21.9	23.0	22.3	23.4	23.8	20.9	22.0	21.3	22.4	22.8
4H	2H	19.8	21.1	20.2	21.4	21.8	19.0	20.3	19.4	20.7	21.1
	3H	21.5	22.6	21.9	23.0	23.4	20.7	21.8	21.1	22.2	22.6
	4H	22.2	23.2	22.6	23.6	24.0	21.3	22.3	21.8	22.7	23.2
	6H	22.6	23.5	23.1	24.0	24.4	21.8	22.7	22.2	23.1	23.6
	8H	22.8	23.6	23.2	24.0	24.5	21.9	22.7	22.4	23.2	23.6
	12H	22.9	23.6	23.3	24.1	24.5	22.0	22.7	22.5	23.2	23.7
8H	4H	22.4	23.2	22.8	23.6	24.1	21.6	22.4	22.1	22.9	23.3
	6H	23.0	23.6	23.4	24.1	24.6	22.2	22.8	22.7	23.3	23.8
	8H	23.1	23.7	23.7	24.2	24.7	22.4	23.0	22.9	23.5	24.0
	12H	23.3	23.8	23.8	24.3	24.9	22.5	23.0	23.0	23.5	24.1
12H	4H	22.4	23.1	22.9	23.6	24.0	21.6	22.4	22.1	22.8	23.3
	6H	23.0	23.6	23.5	24.0	24.6	22.2	22.8	22.8	23.3	23.8
	8H	23.2	23.7	23.7	24.2	24.8	22.4	23.0	22.9	23.5	24.0

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 4085.726 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)