



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L300-840-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20910.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-OCT-2020

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

[LUMINAIRE] LED 22" ARRAYS 1x8' NARROW INDUSTRIAL LUMINAIRE

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

[LUMCAT] GLN-8-L300/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	27378
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	202.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
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	55794	56660	34217
55	52228	33051	34605
65	43379	30616	13554
75	25104	10851	11669
85	3836	4859	4859

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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	11215.300	11215.300	11215.300	11215.300	11215.300
5	11380.362	11186.303	11132.769	11106.002	11097.080
10	11273.295	11083.697	11021.241	11021.241	11021.241
15	11063.622	10903.021	10889.637	10847.256	10824.951
20	10782.570	10653.197	10624.200	10570.666	10572.897
25	10394.451	10327.534	10285.153	10267.309	10249.464
30	9917.109	9861.345	9841.270	9861.345	9850.192
35	9355.006	9299.242	9330.470	9397.387	9390.695
40	8667.991	8587.690	8730.447	7976.514	6234.440
45	7896.214	7867.216	8018.895	4800.184	4842.565
50	7061.981	7026.292	4762.265	4476.752	4512.441
55	5995.769	6087.222	3794.198	3965.951	3972.643
60	4918.404	4969.707	3301.242	2991.193	2152.499
65	3669.286	3011.268	2589.690	1153.204	1146.512
70	2482.623	1721.999	861.000	887.766	892.228
75	1300.422	972.528	562.103	588.870	604.484
80	484.033	276.591	296.666	303.357	305.588
85	66.917	75.839	84.762	84.762	84.762
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4140.03	N.A.	15.10
0-30	8886.98	N.A.	32.50
0-40	14641.89	N.A.	53.50
0-60	24056.54	N.A.	87.90
0-80	27248.08	N.A.	99.50
0-90	27378.25	N.A.	100.00
10-90	26315.3	N.A.	96.10
20-40	10501.85	N.A.	38.40
20-50	15750.8	N.A.	57.50
40-70	11777.31	N.A.	43.00
60-80	3191.53	N.A.	11.70
70-80	828.88	N.A.	3.00
80-90	130.18	N.A.	0.50
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	27378.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1062.95
10-20	3077.08
20-30	4746.94
30-40	5754.91
40-50	5248.94
50-60	4165.71
60-70	2362.65
70-80	828.88
80-90	130.18
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	284	284	284	284	277	277	277	277	265	265	265	253	253	253	243	243	243	238
1	263	253	245	237	257	248	240	233	238	232	226	229	224	219	220	216	212	208
2	242	224	210	198	236	220	207	196	212	201	191	204	195	187	197	190	183	178
3	222	200	182	168	217	196	180	167	189	175	164	183	171	161	177	167	158	153
4	205	178	159	144	199	175	157	144	169	154	142	164	151	140	159	148	138	133
5	189	160	140	126	184	158	139	125	153	136	124	148	134	123	144	131	121	116
6	175	145	125	111	171	143	124	110	139	122	109	135	120	108	131	118	107	103
7	162	132	112	98	159	130	111	98	127	110	97	123	108	97	120	106	96	92
8	151	121	101	88	148	119	101	88	116	99	87	113	98	87	110	97	86	82
9	142	111	92	80	138	110	92	79	107	91	79	104	89	79	102	88	78	74
10	133	103	84	72	130	101	84	72	99	83	72	97	82	72	95	81	71	67

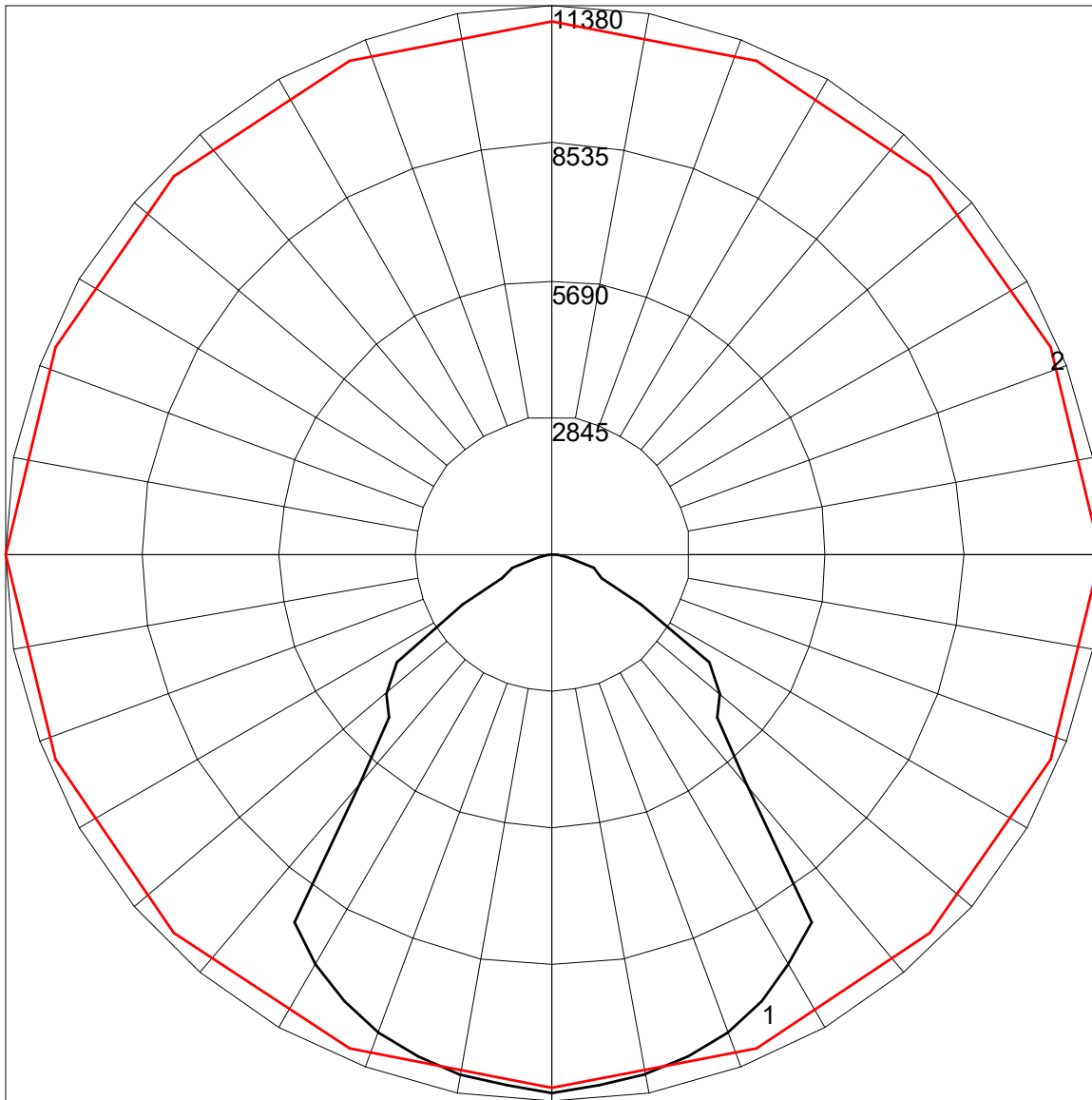
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UGR TABLE - CORRECTED

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	23.7	25.2	24.1	25.5	25.8	20.3	21.8	20.7	22.1	22.5
	3H	24.7	26.1	25.1	26.4	26.7	20.7	22.0	21.1	22.4	22.7
	4H	25.0	26.2	25.4	26.6	27.0	20.9	22.1	21.3	22.5	22.9
	6H	25.1	26.2	25.5	26.6	27.0	21.0	22.1	21.4	22.5	22.9
	8H	25.0	26.1	25.5	26.5	26.9	21.0	22.1	21.4	22.5	22.9
	12H	25.0	26.1	25.5	26.5	26.9	21.0	22.0	21.4	22.4	22.8
4H	2H	23.9	25.1	24.3	25.5	25.9	21.0	22.3	21.4	22.6	23.0
	3H	24.9	26.0	25.3	26.4	26.8	21.4	22.5	21.9	22.9	23.3
	4H	25.2	26.2	25.7	26.6	27.0	21.6	22.6	22.1	23.0	23.4
	6H	25.4	26.2	25.8	26.6	27.1	21.8	22.6	22.3	23.1	23.5
	8H	25.4	26.1	25.8	26.6	27.0	21.8	22.6	22.3	23.0	23.5
	12H	25.3	26.0	25.8	26.5	27.0	21.8	22.5	22.3	23.0	23.4
8H	4H	25.2	25.9	25.7	26.4	26.9	21.7	22.5	22.2	22.9	23.4
	6H	25.3	25.9	25.8	26.4	26.9	21.9	22.5	22.4	23.0	23.5
	8H	25.3	25.9	25.8	26.4	26.9	22.0	22.5	22.5	23.0	23.5
	12H	25.3	25.8	25.8	26.3	26.8	22.0	22.5	22.5	23.0	23.5
12H	4H	25.2	25.8	25.7	26.3	26.8	21.7	22.4	22.2	22.9	23.3
	6H	25.3	25.8	25.8	26.3	26.8	21.9	22.5	22.4	22.9	23.5
	8H	25.3	25.8	25.8	26.3	26.8	22.0	22.5	22.5	23.0	23.5

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 11380.362 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.)