



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L126-840-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-L126/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	81.7
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	23420	23783	14363
55	21923	13873	14526
65	18209	12851	5690
75	10537	4555	4898
85	1610	2040	2040

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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	4707.656	4707.656	4707.656	4707.656	4707.656
5	4776.941	4695.484	4673.013	4661.778	4658.033
10	4732.000	4652.415	4626.199	4626.199	4626.199
15	4643.988	4576.576	4570.958	4553.169	4543.806
20	4526.016	4471.711	4459.540	4437.069	4438.005
25	4363.102	4335.013	4317.224	4309.734	4302.243
30	4162.736	4139.329	4130.903	4139.329	4134.648
35	3926.792	3903.385	3916.493	3944.581	3941.772
40	3638.415	3604.709	3664.631	3348.166	2616.925
45	3314.460	3302.288	3365.955	2014.892	2032.681
50	2964.288	2949.307	1998.975	1879.130	1894.111
55	2516.742	2555.130	1592.626	1664.720	1667.529
60	2064.515	2086.050	1385.706	1255.562	903.518
65	1540.194	1263.989	1087.030	484.061	481.252
70	1042.089	722.814	361.407	372.643	374.515
75	545.856	408.222	235.945	247.180	253.734
80	203.174	116.100	124.526	127.335	128.271
85	28.089	31.834	35.579	35.579	35.579
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1737.79	N.A.	15.10
0-30	3730.34	N.A.	32.50
0-40	6145.98	N.A.	53.50
0-60	10097.81	N.A.	87.90
0-80	11437.46	N.A.	99.50
0-90	11492.1	N.A.	100.00
10-90	11045.93	N.A.	96.10
20-40	4408.18	N.A.	38.40
20-50	6611.44	N.A.	57.50
40-70	4943.56	N.A.	43.00
60-80	1339.66	N.A.	11.70
70-80	347.92	N.A.	3.00
80-90	54.64	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	11492.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	446.18
10-20	1291.61
20-30	1992.54
30-40	2415.64
40-50	2203.26
50-60	1748.57
60-70	991.73
70-80	347.92
80-90	54.64
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	246	246	246	246	240	240	240	240	229	229	229	220	220	220	211	211	211	207
1	228	220	212	205	223	215	208	202	206	201	196	198	194	190	191	187	184	180
2	210	195	182	172	204	191	179	170	184	174	166	177	169	162	171	164	159	154
3	193	173	158	146	188	170	156	144	164	152	142	158	148	139	153	145	137	133
4	177	155	138	125	173	152	136	124	147	133	123	142	131	121	138	128	120	115
5	164	139	122	109	160	137	121	108	133	118	107	129	116	106	125	114	105	101
6	152	126	108	96	148	124	107	96	120	106	95	117	104	94	114	102	93	89
7	141	114	97	85	137	113	97	85	110	95	84	107	94	84	104	92	83	79
8	131	105	88	76	128	103	87	76	101	86	76	98	85	75	96	84	75	71
9	123	96	80	69	120	95	79	69	93	78	69	91	78	68	89	77	68	64
10	115	89	73	63	113	88	73	63	86	72	62	84	71	62	82	70	62	58

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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	21.2	22.7	21.6	23.0	23.3	17.8	19.3	18.2	19.6	20.0
	3H	22.2	23.6	22.6	23.9	24.2	18.2	19.5	18.6	19.9	20.2
	4H	22.5	23.7	22.9	24.1	24.5	18.4	19.6	18.8	20.0	20.4
	6H	22.6	23.7	23.0	24.1	24.5	18.5	19.6	18.9	20.0	20.4
	8H	22.5	23.6	23.0	24.0	24.4	18.5	19.6	18.9	20.0	20.4
	12H	22.5	23.6	23.0	24.0	24.4	18.5	19.5	18.9	19.9	20.3

UGR Viewed Endwise

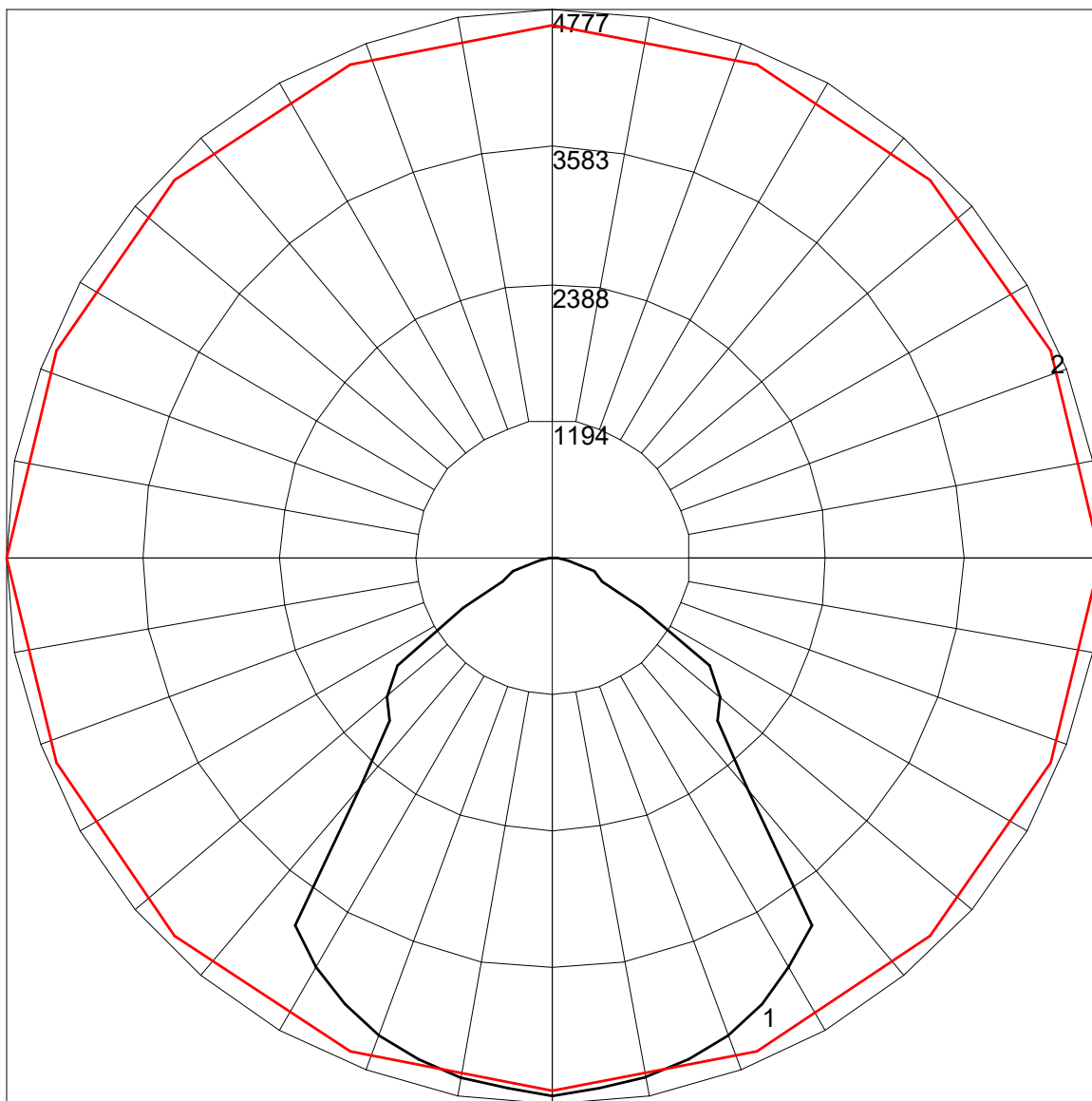
4H	2H	21.4	22.6	21.8	23.0	23.4	18.5	19.8	18.9	20.1	20.5
	3H	22.4	23.5	22.8	23.9	24.3	18.9	20.0	19.4	20.4	20.8
	4H	22.7	23.7	23.2	24.1	24.5	19.1	20.1	19.6	20.5	20.9
	6H	22.9	23.7	23.3	24.1	24.6	19.3	20.1	19.8	20.6	21.0
	8H	22.9	23.6	23.3	24.1	24.5	19.3	20.1	19.8	20.5	21.0
	12H	22.8	23.5	23.3	24.0	24.5	19.3	20.0	19.8	20.5	20.9

8H	4H	22.7	23.4	23.2	23.9	24.4	19.2	20.0	19.7	20.4	20.9
	6H	22.8	23.4	23.3	23.9	24.4	19.4	20.0	19.9	20.5	21.0
	8H	22.8	23.4	23.3	23.9	24.4	19.5	20.0	20.0	20.5	21.0
	12H	22.8	23.3	23.3	23.8	24.3	19.5	20.0	20.0	20.5	21.0

12H	4H	22.7	23.3	23.2	23.8	24.3	19.2	19.9	19.7	20.4	20.8
	6H	22.8	23.3	23.3	23.8	24.3	19.4	20.0	19.9	20.4	21.0
	8H	22.8	23.3	23.3	23.8	24.3	19.5	20.0	20.0	20.5	21.0

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 4776.941 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.)