



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-8-L210-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20912.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 15-OCT-2020

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

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

[MORE] WHITE HOUSING w/WHITE REFLECTOR & NO LENS

[LUMCAT] GLN-8-L210/840-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	136.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.01 ft
Luminous Width (90-270)	0.65 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16265	16375	16548
55	15535	16259	9253
65	13802	8693	9104
75	10260	2590	3001
85	1627	3550	3402

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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	7735.919	7735.919	7735.919	7735.919	7735.919
5	7858.416	7715.761	7678.547	7670.794	7666.142
10	7776.234	7649.085	7621.175	7621.175	7608.770
15	7627.377	7521.937	7501.779	7486.273	7476.969
20	7421.148	7321.910	7315.707	7304.853	7297.100
25	7135.838	7075.365	7055.207	7080.017	7069.163
30	6813.315	6754.392	6759.044	6785.404	6796.258
35	6464.431	6396.205	6385.350	6434.969	6464.431
40	6011.657	5979.094	6051.972	6038.017	6065.928
45	5534.074	5489.106	5571.288	5614.705	5630.211
50	4957.252	4968.107	5058.041	5154.178	5171.234
55	4287.395	4357.172	4487.422	3909.050	2553.830
60	3557.065	3645.449	3915.252	2195.643	2218.902
65	2806.577	2899.613	1767.678	1843.658	1851.410
70	1964.604	2296.431	1407.940	569.068	426.414
75	1277.690	855.928	322.524	356.637	373.693
80	553.562	452.774	257.399	302.366	303.917
85	68.226	110.092	148.857	138.003	142.655
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2856.31	N.A.	13.50
0-30	6120.24	N.A.	28.80
0-40	10140.19	N.A.	47.80
0-60	18078.44	N.A.	85.20
0-80	21055.9	N.A.	99.20
0-90	21222.33	N.A.	100.00
10-90	20488.5	N.A.	96.50
20-40	7283.88	N.A.	34.30
20-50	11577.13	N.A.	54.60
40-70	10149.74	N.A.	47.80
60-80	2977.47	N.A.	14.00
70-80	765.97	N.A.	3.60
80-90	166.43	N.A.	0.80
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	21222.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	733.83
10-20	2122.47
20-30	3263.94
30-40	4019.95
40-50	4293.25
50-60	3645.00
60-70	2211.49
70-80	765.97
80-90	166.43
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	200	200	200	200	195	195	195	195	187	187	187	179	179	179	171	171	171	168
1	185	177	171	165	180	174	168	162	166	162	157	160	156	152	154	151	148	145
2	169	156	145	136	165	153	143	135	147	139	132	142	135	129	137	131	126	122
3	154	138	125	114	150	135	123	113	130	120	111	126	117	109	121	114	108	104
4	142	122	108	97	138	120	107	97	116	104	95	112	102	94	109	100	93	89
5	130	109	95	84	127	108	94	84	104	92	83	101	90	82	98	88	81	77
6	120	98	84	73	117	97	83	73	94	82	72	91	80	72	88	79	71	68
7	112	89	75	65	109	88	74	65	85	73	64	83	72	64	81	71	63	60
8	104	81	67	58	101	80	67	58	78	66	57	76	65	57	74	64	56	53
9	97	75	61	52	94	74	61	52	72	60	51	70	59	51	68	58	51	48
10	91	69	56	47	89	68	55	47	66	55	47	65	54	46	63	53	46	43

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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	20.7	22.3	22.6	18.2	19.7	18.5	20.1	20.4
	3H	22.0	23.5	22.4	23.8	24.1	18.6	20.0	19.0	20.4	20.7
	4H	22.4	23.8	22.8	24.1	24.5	18.7	20.0	19.1	20.3	20.7
	6H	22.6	23.9	23.0	24.2	24.6	18.8	20.0	19.2	20.4	20.7
	8H	22.7	23.8	23.1	24.2	24.6	18.8	20.0	19.2	20.4	20.8
	12H	22.7	23.8	23.1	24.1	24.6	18.8	20.0	19.3	20.3	20.8

UGR Viewed Endwise

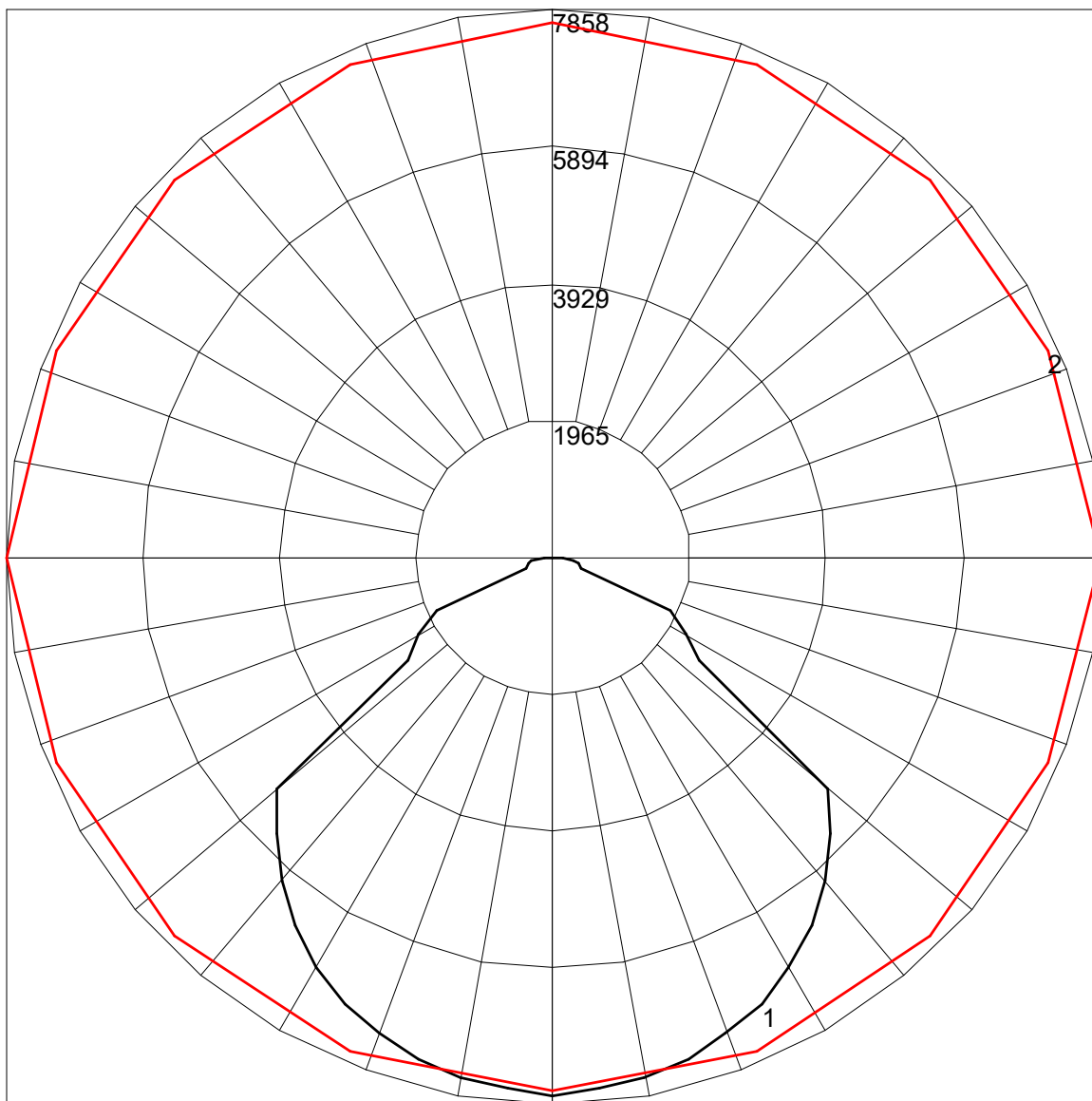
4H	2H	20.5	21.9	20.9	22.2	22.6	18.6	19.9	19.0	20.3	20.7
	3H	22.5	23.6	22.9	24.0	24.4	19.2	20.3	19.6	20.7	21.1
	4H	22.9	23.9	23.3	24.3	24.7	19.3	20.3	19.7	20.7	21.1
	6H	23.2	24.0	23.6	24.5	24.9	19.4	20.3	19.9	20.7	21.2
	8H	23.2	24.0	23.7	24.5	24.9	19.5	20.3	20.0	20.8	21.2
	12H	23.2	23.9	23.7	24.4	24.9	19.6	20.3	20.0	20.8	21.2

8H	4H	22.8	23.7	23.3	24.1	24.6	19.4	20.2	19.9	20.7	21.2
	6H	23.2	23.8	23.7	24.3	24.8	19.7	20.3	20.1	20.8	21.3
	8H	23.2	23.8	23.7	24.3	24.8	19.8	20.4	20.3	20.9	21.4
	12H	23.2	23.8	23.8	24.3	24.8	19.9	20.4	20.4	20.9	21.5

12H	4H	22.8	23.5	23.3	24.0	24.5	19.4	20.2	19.9	20.6	21.1
	6H	23.1	23.7	23.7	24.2	24.7	19.7	20.3	20.2	20.7	21.3
	8H	23.2	23.7	23.7	24.2	24.8	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 7858.416 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.)