



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L63-835-DRV-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] 05-31-2023

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

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

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

[LUMCAT] GLN-4-L63-835-DRV-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6203
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	42.3
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)	4.01 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	9496	9560	9661
55	9070	9493	5402
65	8058	5075	5316
75	5990	1512	1752
85	950	2072	1986

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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	2261.088	2261.088	2261.088	2261.088	2261.088
5	2296.892	2255.196	2244.319	2242.053	2240.694
10	2272.872	2235.708	2227.550	2227.550	2223.925
15	2229.363	2198.545	2192.653	2188.121	2185.401
20	2169.086	2140.080	2138.267	2135.094	2132.828
25	2085.694	2068.019	2062.127	2069.378	2066.206
30	1991.425	1974.203	1975.563	1983.268	1986.440
35	1889.452	1869.511	1866.338	1880.841	1889.452
40	1757.113	1747.596	1768.897	1764.818	1772.976
45	1617.523	1604.380	1628.400	1641.090	1645.623
50	1448.927	1452.100	1478.386	1506.486	1511.471
55	1253.139	1273.533	1311.603	1142.554	746.445
60	1039.675	1065.508	1144.367	641.752	648.550
65	820.319	847.511	516.665	538.872	541.138
70	574.223	671.211	411.519	166.330	124.634
75	373.449	250.175	94.269	104.239	109.225
80	161.798	132.339	75.234	88.377	88.830
85	19.941	32.178	43.509	40.336	41.696
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	834.85	N.A.	13.50
0-30	1788.85	N.A.	28.80
0-40	2963.82	N.A.	47.80
0-60	5284.04	N.A.	85.20
0-80	6154.31	N.A.	99.20
0-90	6202.96	N.A.	100.00
10-90	5988.47	N.A.	96.50
20-40	2128.97	N.A.	34.30
20-50	3383.81	N.A.	54.60
40-70	2966.61	N.A.	47.80
60-80	870.27	N.A.	14.00
70-80	223.88	N.A.	3.60
80-90	48.64	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	6202.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	214.49
10-20	620.37
20-30	954.00
30-40	1174.97
40-50	1254.85
50-60	1065.38
60-70	646.38
70-80	223.88
80-90	48.64
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	38	32	27	26

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UGR TABLE - CORRECTED

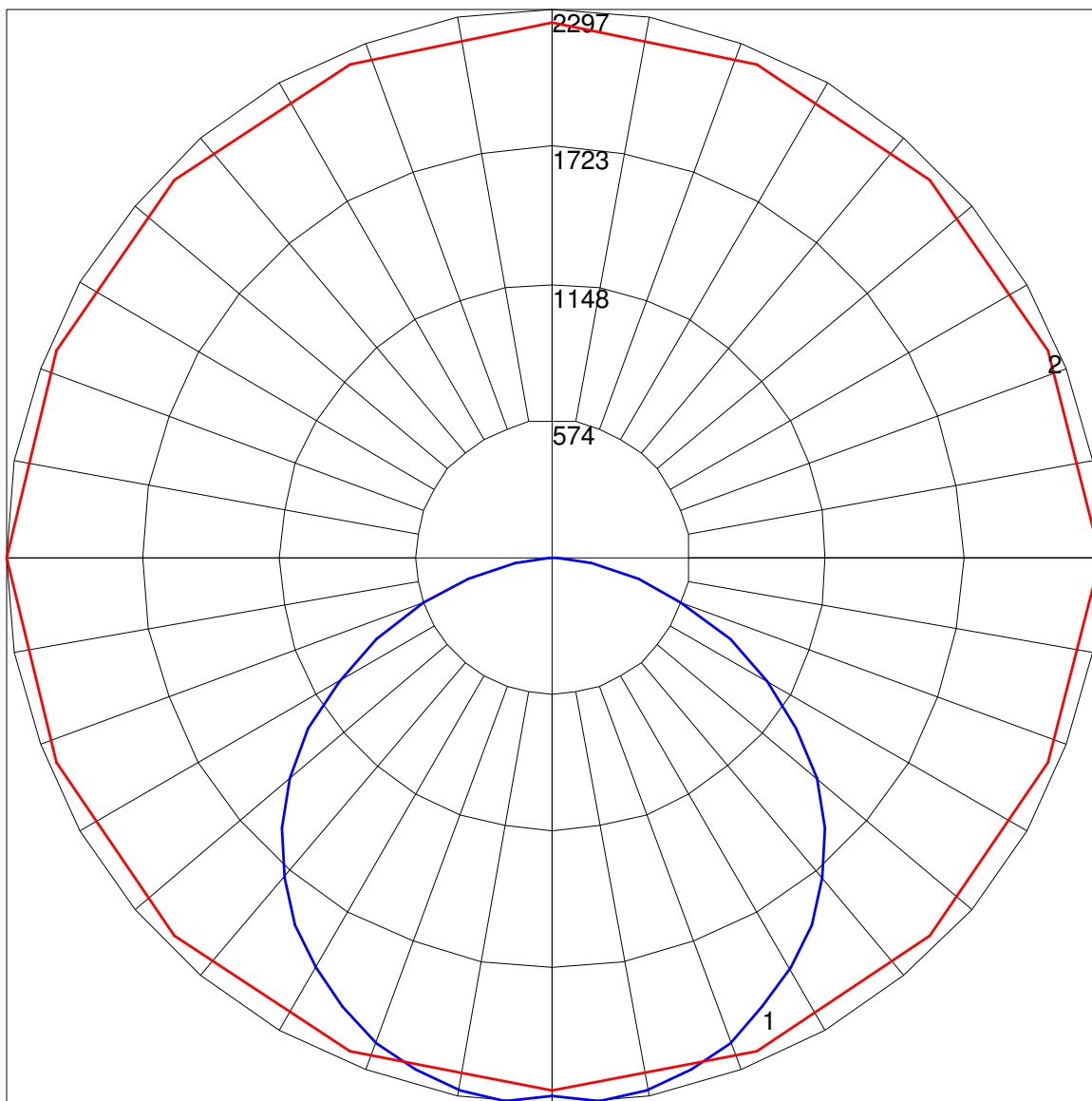
Reflectances

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	20.3	21.9	20.6	22.2	22.5	18.1	19.6	18.4	20.0	20.3
	3H	21.9	23.4	22.3	23.7	24.0	18.5	19.9	18.9	20.3	20.6
	4H	22.3	23.7	22.7	24.0	24.4	18.6	19.9	19.0	20.2	20.6
	6H	22.5	23.8	22.9	24.1	24.5	18.7	19.9	19.1	20.3	20.7
	8H	22.6	23.7	23.0	24.1	24.5	18.7	19.9	19.1	20.3	20.7
	12H	22.6	23.7	23.0	24.1	24.5	18.8	19.9	19.2	20.2	20.7
4H	2H	20.4	21.8	20.8	22.1	22.5	18.5	19.8	18.9	20.2	20.6
	3H	22.4	23.5	22.8	23.9	24.3	19.1	20.2	19.5	20.6	21.0
	4H	22.8	23.8	23.2	24.2	24.6	19.2	20.2	19.6	20.6	21.0
	6H	23.1	23.9	23.5	24.4	24.8	19.3	20.2	19.8	20.6	21.1
	8H	23.1	23.9	23.6	24.4	24.8	19.4	20.2	19.9	20.7	21.1
	12H	23.1	23.8	23.6	24.3	24.8	19.5	20.2	19.9	20.7	21.1
8H	4H	22.7	23.6	23.2	24.0	24.5	19.3	20.1	19.8	20.6	21.1
	6H	23.1	23.7	23.6	24.2	24.7	19.6	20.2	20.1	20.7	21.2
	8H	23.1	23.7	23.6	24.2	24.7	19.7	20.3	20.2	20.8	21.3
	12H	23.2	23.7	23.7	24.2	24.7	19.8	20.3	20.3	20.8	21.4
12H	4H	22.7	23.5	23.2	23.9	24.4	19.3	20.1	19.8	20.5	21.0
	6H	23.0	23.6	23.6	24.1	24.6	19.6	20.2	20.1	20.6	21.2
	8H	23.1	23.6	23.6	24.1	24.7	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 2296.892 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.)