



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L63-835-(L50)-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] 11-04-2020

[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-(L50)-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4900
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	33.4
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	7501	7552	7632
55	7164	7499	4268
65	6365	4009	4199
75	4732	1194	1384
85	750	1637	1569

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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	1786.082	1786.082	1786.082	1786.082	1786.082
5	1814.364	1781.427	1772.835	1771.045	1769.971
10	1795.390	1766.033	1759.589	1759.589	1756.725
15	1761.021	1736.677	1732.023	1728.443	1726.295
20	1713.407	1690.494	1689.062	1686.556	1684.766
25	1647.534	1633.572	1628.918	1634.646	1632.140
30	1573.069	1559.465	1560.539	1566.625	1569.131
35	1492.518	1476.766	1474.260	1485.716	1492.518
40	1387.981	1380.463	1397.289	1394.067	1400.511
45	1277.716	1267.334	1286.308	1296.332	1299.912
50	1144.539	1147.045	1167.809	1190.005	1193.943
55	989.881	1005.991	1036.063	902.528	589.632
60	821.261	841.667	903.960	506.934	512.304
65	647.987	669.467	408.124	425.667	427.457
70	453.591	530.204	325.068	131.387	98.451
75	294.995	197.618	74.465	82.341	86.279
80	127.807	104.537	59.429	69.811	70.169
85	15.752	25.418	34.368	31.862	32.936
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	659.47	N.A.	13.50
0-30	1413.05	N.A.	28.80
0-40	2341.18	N.A.	47.80
0-60	4173.98	N.A.	85.20
0-80	4861.42	N.A.	99.20
0-90	4899.85	N.A.	100.00
10-90	4730.42	N.A.	96.50
20-40	1681.72	N.A.	34.30
20-50	2672.95	N.A.	54.60
40-70	2343.39	N.A.	47.80
60-80	687.44	N.A.	14.00
70-80	176.85	N.A.	3.60
80-90	38.42	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	4899.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.43
10-20	490.04
20-30	753.58
30-40	928.13
40-50	991.23
50-60	841.56
60-70	510.59
70-80	176.85
80-90	38.42
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

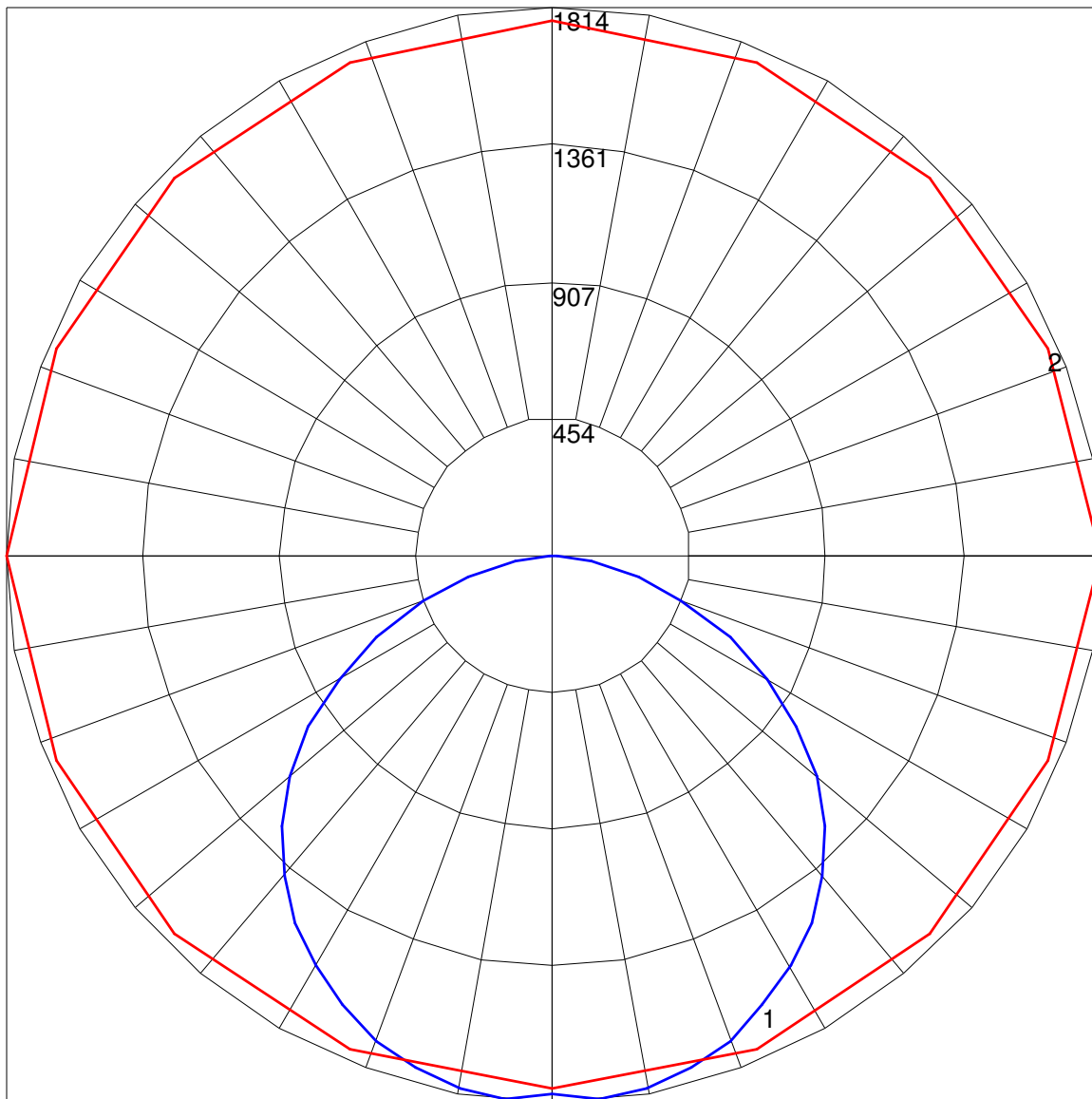
Reflectances

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	19.5	21.1	19.8	21.4	21.7	17.3	18.8	17.6	19.2	19.5
	3H	21.1	22.6	21.5	22.9	23.2	17.7	19.1	18.1	19.5	19.8
	4H	21.5	22.9	21.9	23.2	23.6	17.8	19.1	18.2	19.4	19.8
	6H	21.7	23.0	22.1	23.3	23.7	17.9	19.1	18.3	19.5	19.9
	8H	21.8	22.9	22.2	23.3	23.7	17.9	19.1	18.3	19.5	19.9
	12H	21.8	22.9	22.2	23.3	23.7	18.0	19.1	18.4	19.4	19.9
4H	2H	19.6	21.0	20.0	21.3	21.7	17.7	19.0	18.1	19.4	19.8
	3H	21.6	22.7	22.0	23.1	23.5	18.3	19.4	18.7	19.8	20.2
	4H	22.0	23.0	22.4	23.4	23.8	18.4	19.4	18.8	19.8	20.2
	6H	22.3	23.1	22.7	23.6	24.0	18.5	19.4	19.0	19.8	20.3
	8H	22.3	23.1	22.8	23.6	24.0	18.6	19.4	19.1	19.9	20.3
	12H	22.3	23.0	22.8	23.5	24.0	18.7	19.4	19.1	19.9	20.3
8H	4H	21.9	22.8	22.4	23.2	23.7	18.5	19.3	19.0	19.8	20.3
	6H	22.3	22.9	22.8	23.4	23.9	18.8	19.4	19.3	19.9	20.4
	8H	22.3	22.9	22.8	23.4	23.9	18.9	19.5	19.4	20.0	20.5
	12H	22.4	22.9	22.9	23.4	23.9	19.0	19.5	19.5	20.0	20.6
12H	4H	21.9	22.7	22.4	23.1	23.6	18.5	19.3	19.0	19.7	20.2
	6H	22.2	22.8	22.8	23.3	23.8	18.8	19.4	19.3	19.8	20.4
	8H	22.3	22.8	22.8	23.3	23.9	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 1814.364 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.)