



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L105-835-(L70)-EM10W-DIM-UNV\_(EMER MODE).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-L105-835-(L70)-EM10W-DIM-UNV (EMER MODE)

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	10
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	2204	2219	2243
55	2105	2204	1254
65	1871	1178	1234
75	1390	351	407
85	220	481	461

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	524.889	524.889	524.889	524.889	524.889
<b>5</b>	533.201	523.521	520.996	520.470	520.155
<b>10</b>	527.625	518.997	517.104	517.104	516.262
<b>15</b>	517.525	510.370	509.003	507.950	507.319
<b>20</b>	503.532	496.798	496.377	495.641	495.115
<b>25</b>	484.173	480.070	478.702	480.386	479.649
<b>30</b>	462.290	458.292	458.607	460.396	461.132
<b>35</b>	438.618	433.988	433.252	436.619	438.618
<b>40</b>	407.896	405.687	410.632	409.685	411.579
<b>45</b>	375.492	372.441	378.017	380.963	382.015
<b>50</b>	336.354	337.091	343.193	349.716	350.873
<b>55</b>	290.904	295.638	304.476	265.233	173.280
<b>60</b>	241.350	247.347	265.653	148.976	150.555
<b>65</b>	190.429	196.741	119.939	125.094	125.620
<b>70</b>	133.300	155.815	95.530	38.612	28.933
<b>75</b>	86.692	58.076	21.884	24.198	25.355
<b>80</b>	37.560	30.721	17.465	20.516	20.621
<b>85</b>	4.629	7.470	10.100	9.364	9.679
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	193.80	N.A.	13.50
0-30	415.26	N.A.	28.80
0-40	688.02	N.A.	47.80
0-60	1226.64	N.A.	85.20
0-80	1428.66	N.A.	99.20
0-90	1439.95	N.A.	100.00
10-90	1390.16	N.A.	96.50
20-40	494.22	N.A.	34.30
20-50	785.52	N.A.	54.60
40-70	688.67	N.A.	47.80
60-80	202.02	N.A.	14.00
70-80	51.97	N.A.	3.60
80-90	11.29	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	1439.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.79
10-20	144.01
20-30	221.46
30-40	272.76
40-50	291.30
50-60	247.32
60-70	150.05
70-80	51.97
80-90	11.29
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

X=2H	Y=2H	15.3	16.9	15.6	17.2	17.5	13.1	14.6	13.4	15.0	15.3
	3H	16.9	18.4	17.3	18.7	19.0	13.5	14.9	13.9	15.3	15.6
	4H	17.3	18.7	17.7	19.0	19.4	13.6	14.9	14.0	15.2	15.6
	6H	17.5	18.8	17.9	19.1	19.5	13.7	14.9	14.1	15.3	15.7
	8H	17.6	18.7	18.0	19.1	19.5	13.7	14.9	14.1	15.3	15.7
	12H	17.5	18.7	18.0	19.0	19.5	13.7	14.9	14.2	15.2	15.7

### UGR Viewed Endwise

4H	2H	15.4	16.8	15.8	17.1	17.5	13.5	14.8	13.9	15.2	15.6
	3H	17.4	18.5	17.8	18.9	19.3	14.1	15.2	14.5	15.6	16.0
	4H	17.8	18.8	18.2	19.2	19.6	14.2	15.2	14.6	15.6	16.0
	6H	18.1	18.9	18.5	19.4	19.8	14.3	15.2	14.8	15.6	16.1
	8H	18.1	18.9	18.6	19.4	19.8	14.4	15.2	14.9	15.7	16.1
	12H	18.1	18.8	18.6	19.3	19.8	14.5	15.2	14.9	15.7	16.1

8H	4H	17.7	18.6	18.2	19.0	19.5	14.3	15.1	14.8	15.6	16.1
	6H	18.1	18.7	18.6	19.2	19.7	14.6	15.2	15.1	15.7	16.2
	8H	18.1	18.7	18.6	19.2	19.7	14.7	15.3	15.2	15.8	16.3
	12H	18.2	18.7	18.7	19.2	19.7	14.8	15.3	15.3	15.8	16.4

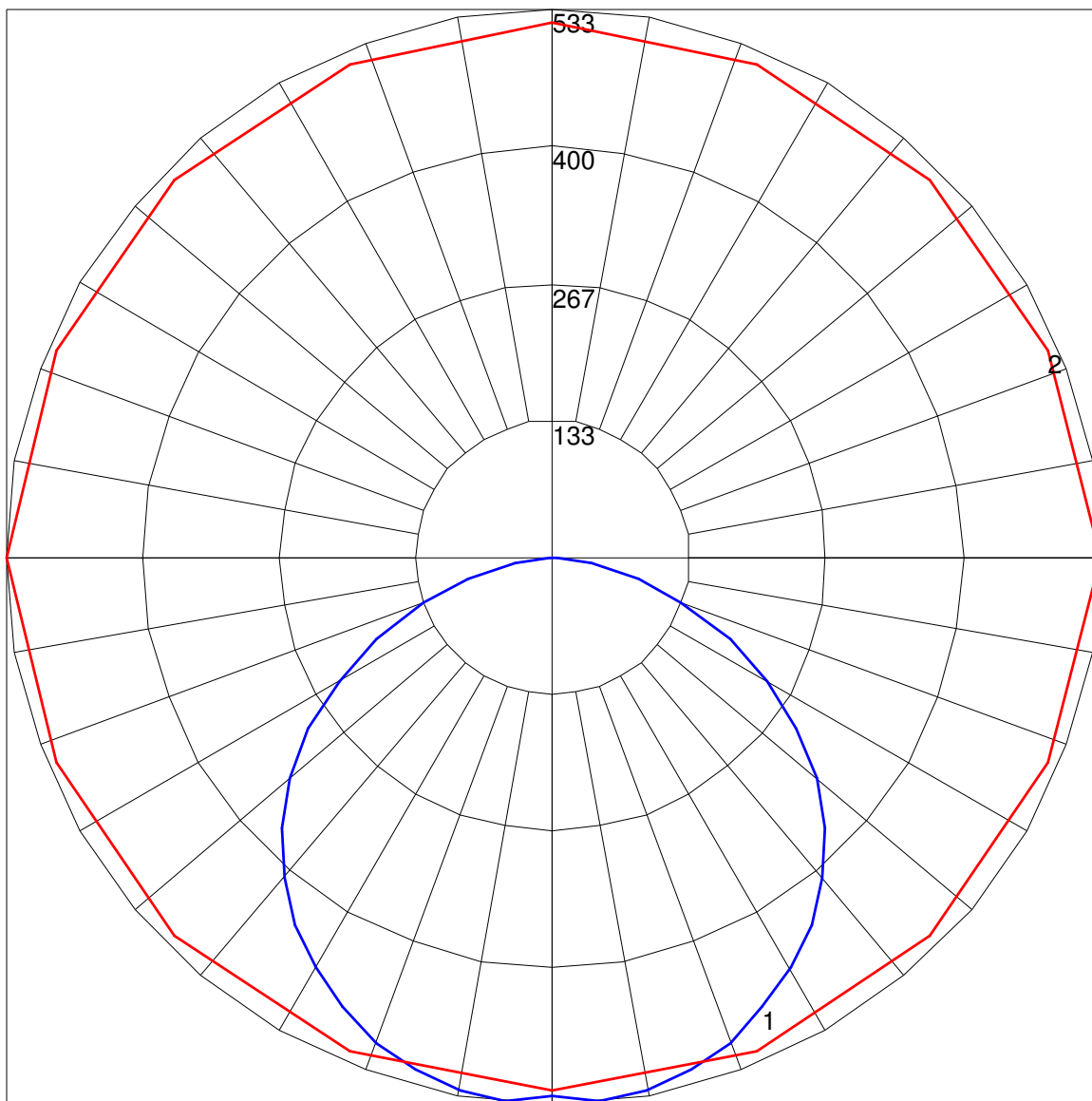
12H	4H	17.7	18.4	18.2	18.9	19.4	14.3	15.1	14.8	15.5	16.0
	6H	18.0	18.6	18.6	19.1	19.6	14.6	15.2	15.1	15.6	16.2
	8H	18.1	18.6	18.6	19.1	19.7	14.7	15.2	15.2	15.7	16.3

Maximum UGR = 19.8

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## POLAR GRAPH



Maximum Candela = 533.201 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.)