



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L63-835-(L50)-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-L63/835-(L50)-EM10W-DIM-UNV(EMER MODE)

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	2250	2266	2289
55	2149	2250	1280
65	1910	1203	1260
75	1419	358	415
85	225	491	471

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	535.825	535.825	535.825	535.825	535.825
5	544.309	534.428	531.851	531.314	530.992
10	538.617	529.810	527.877	527.877	527.018
15	528.307	521.003	519.607	518.533	517.889
20	514.022	507.148	506.719	505.967	505.430
25	494.260	490.072	488.675	490.394	489.642
30	471.921	467.840	468.162	469.988	470.739
35	447.756	443.030	442.278	445.715	447.756
40	416.394	414.139	419.187	418.220	420.153
45	383.315	380.200	385.893	388.900	389.974
50	343.362	344.113	350.343	357.002	358.183
55	296.964	301.797	310.819	270.758	176.890
60	246.378	252.500	271.188	152.080	153.691
65	194.396	200.840	122.437	127.700	128.237
70	136.077	159.061	97.520	39.416	29.535
75	88.499	59.285	22.339	24.702	25.884
80	38.342	31.361	17.829	20.943	21.051
85	4.726	7.625	10.311	9.559	9.881
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	197.84	N.A.	13.50
0-30	423.92	N.A.	28.80
0-40	702.36	N.A.	47.80
0-60	1252.19	N.A.	85.20
0-80	1458.43	N.A.	99.20
0-90	1469.95	N.A.	100.00
10-90	1419.13	N.A.	96.50
20-40	504.51	N.A.	34.30
20-50	801.88	N.A.	54.60
40-70	703.02	N.A.	47.80
60-80	206.23	N.A.	14.00
70-80	53.05	N.A.	3.60
80-90	11.53	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	1469.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.83
10-20	147.01
20-30	226.08
30-40	278.44
40-50	297.37
50-60	252.47
60-70	153.18
70-80	53.05
80-90	11.53
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

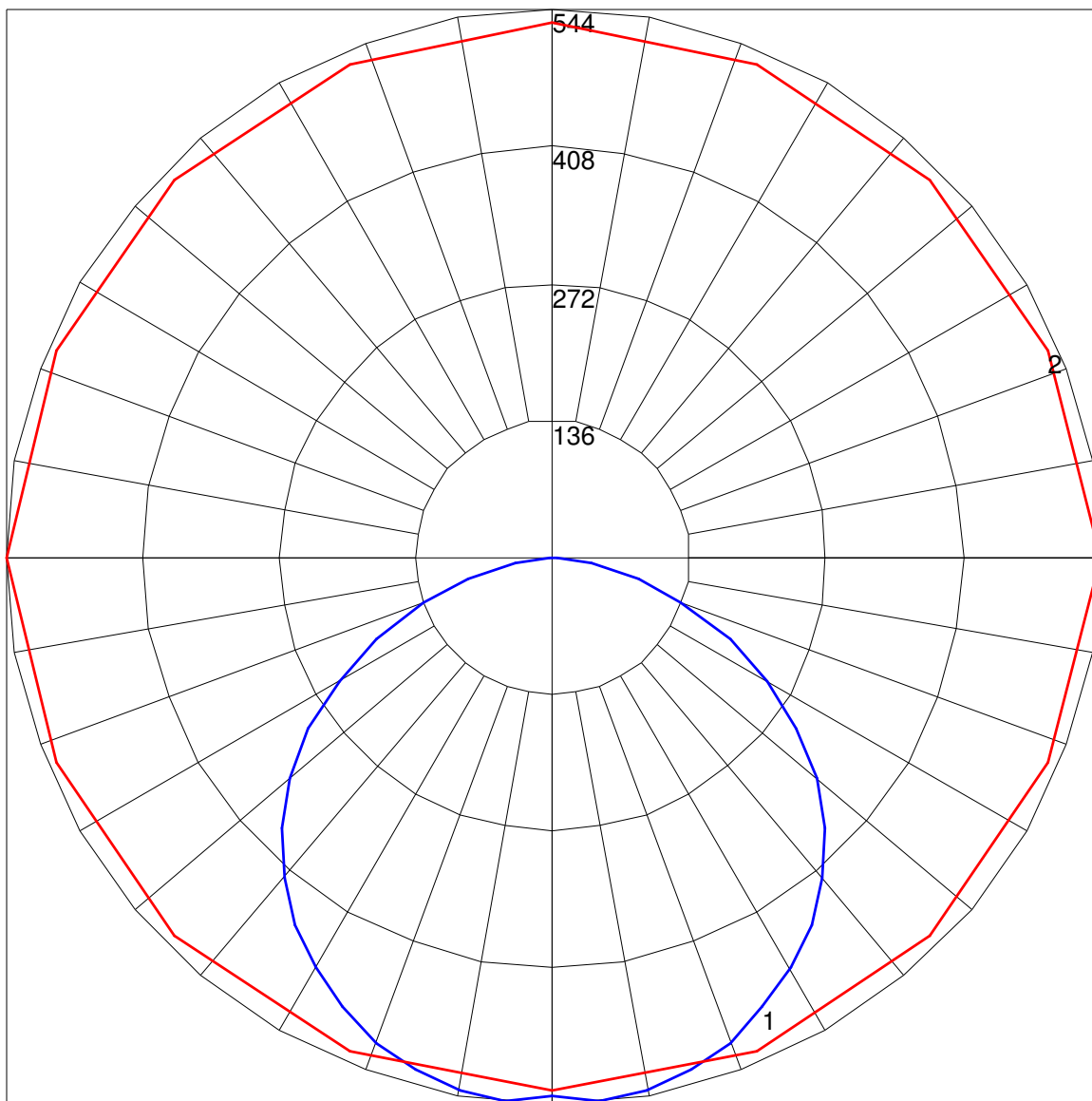
12H	4H	17.7	18.4	18.2	18.9	19.4	14.3	15.1	14.8	15.5	16.0
	6H	18.0	18.6	18.6	19.1	19.6	14.6	15.2	15.1	15.6	16.2
	8H	18.1	18.6	18.6	19.1	19.7	14.7	15.2	15.2	15.7	16.3

Maximum UGR = 19.8

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POLAR GRAPH



Maximum Candela = 544.309 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.)