



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GLN-4-L63-840-SCHA118-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20910.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 15-OCT-2020

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

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

[MORE] WHITE HOUSING w/WHITE REFL & CLEAR ACRYLIC LENS

[LUMCAT] GLN-4-L63/840-DIM-UNV-SCHA118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5564
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.82 ft
Luminous Width (90-270)	0.56 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11339	11515	6954
55	10614	6717	7033
65	8816	6222	2755
75	5102	2205	2372
85	780	988	988

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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	2279.272	2279.272	2279.272	2279.272	2279.272
5	2312.818	2273.379	2262.500	2257.060	2255.247
10	2291.059	2252.527	2239.834	2239.834	2239.834
15	2248.447	2215.808	2213.088	2204.475	2199.942
20	2191.329	2165.037	2159.144	2148.264	2148.717
25	2112.452	2098.853	2090.240	2086.613	2082.987
30	2015.443	2004.110	2000.030	2004.110	2001.843
35	1901.207	1889.874	1896.220	1909.820	1908.460
40	1761.586	1745.266	1774.278	1621.058	1267.018
45	1604.738	1598.845	1629.671	975.536	984.149
50	1435.198	1427.945	967.829	909.805	917.058
55	1218.513	1237.099	771.090	805.996	807.356
60	999.562	1009.988	670.908	607.897	437.450
65	745.705	611.976	526.300	234.364	233.004
70	504.541	349.960	174.980	180.420	181.326
75	264.283	197.646	114.236	119.675	122.849
80	98.370	56.211	60.291	61.651	62.104
85	13.599	15.413	17.226	17.226	17.226
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	841.37	N.A.	15.10
0-30	1806.09	N.A.	32.50
0-40	2975.65	N.A.	53.50
0-60	4888.98	N.A.	87.90
0-80	5537.59	N.A.	99.50
0-90	5564.05	N.A.	100.00
10-90	5348.03	N.A.	96.10
20-40	2134.28	N.A.	38.40
20-50	3201.02	N.A.	57.50
40-70	2393.49	N.A.	43.00
60-80	648.61	N.A.	11.70
70-80	168.45	N.A.	3.00
80-90	26.46	N.A.	0.50
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	5564.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	216.02
10-20	625.35
20-30	964.72
30-40	1169.56
40-50	1066.74
50-60	846.59
60-70	480.16
70-80	168.45
80-90	26.46
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	54	54	54	54	53	53	53	53	50	50	50	48	48	48	46	46	46	45
1	50	48	47	45	49	47	46	44	45	44	43	44	43	42	42	41	40	39
2	46	43	40	38	45	42	39	37	40	38	36	39	37	36	38	36	35	34
3	42	38	35	32	41	37	34	32	36	33	31	35	33	31	34	32	30	29
4	39	34	30	27	38	33	30	27	32	29	27	31	29	27	30	28	26	25
5	36	31	27	24	35	30	26	24	29	26	24	28	25	23	27	25	23	22
6	33	28	24	21	32	27	24	21	26	23	21	26	23	21	25	22	20	20
7	31	25	21	19	30	25	21	19	24	21	19	23	21	18	23	20	18	17
8	29	23	19	17	28	23	19	17	22	19	17	22	19	17	21	18	16	16
9	27	21	18	15	26	21	17	15	20	17	15	20	17	15	19	17	15	14
10	25	20	16	14	25	19	16	14	19	16	14	18	16	14	18	15	14	13

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UGR TABLE - CORRECTED

Reflectances

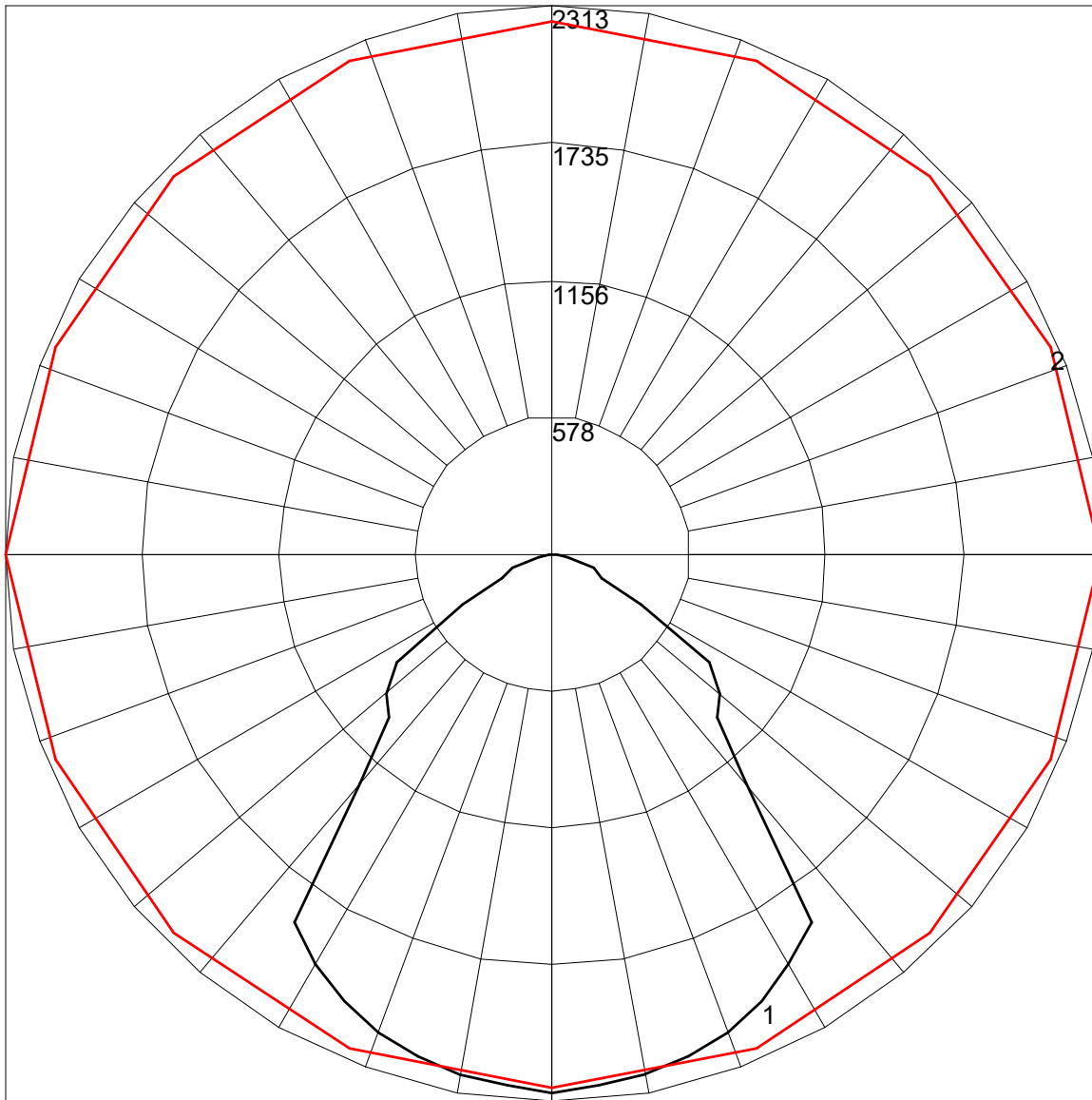
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	23.9	25.4	24.3	25.7	26.0	20.5	22.0	20.9	22.3	22.7
	3H	24.9	26.3	25.3	26.6	26.9	20.9	22.2	21.3	22.6	22.9
	4H	25.2	26.4	25.6	26.8	27.2	21.1	22.3	21.5	22.7	23.1
	6H	25.3	26.4	25.7	26.8	27.2	21.2	22.3	21.6	22.7	23.1
	8H	25.2	26.3	25.7	26.7	27.1	21.2	22.3	21.6	22.7	23.1
	12H	25.2	26.3	25.7	26.7	27.1	21.2	22.2	21.6	22.6	23.0
4H	2H	24.1	25.3	24.5	25.7	26.1	21.2	22.5	21.6	22.8	23.2
	3H	25.1	26.2	25.5	26.6	27.0	21.6	22.7	22.1	23.1	23.5
	4H	25.4	26.4	25.9	26.8	27.2	21.8	22.8	22.3	23.2	23.6
	6H	25.6	26.4	26.0	26.8	27.3	22.0	22.8	22.5	23.3	23.7
	8H	25.6	26.3	26.0	26.8	27.2	22.0	22.8	22.5	23.2	23.7
	12H	25.5	26.2	26.0	26.7	27.2	22.0	22.7	22.5	23.2	23.6
8H	4H	25.4	26.1	25.9	26.6	27.1	21.9	22.7	22.4	23.1	23.6
	6H	25.5	26.1	26.0	26.6	27.1	22.1	22.7	22.6	23.2	23.7
	8H	25.5	26.1	26.0	26.6	27.1	22.2	22.7	22.7	23.2	23.7
	12H	25.5	26.0	26.0	26.5	27.0	22.2	22.7	22.7	23.2	23.7
12H	4H	25.4	26.0	25.9	26.5	27.0	21.9	22.6	22.4	23.1	23.5
	6H	25.5	26.0	26.0	26.5	27.0	22.1	22.7	22.6	23.1	23.7
	8H	25.5	26.0	26.0	26.5	27.0	22.2	22.7	22.7	23.2	23.7

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 2312.818 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.)