



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L35)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 18638.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 10-12-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' SURFACE MNT LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 11-4-L52-935-FAF12125-(L35)-DIM-UNV
 [LAMPCAT] HLM 90 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR, EDUCATION, OFFICE
 [_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3170
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4014	3790	3607
55	3239	2971	2750
65	2657	2388	2272
75	2221	2083	2169
85	2300	2300	2582

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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	1468.255	1468.255	1468.255	1468.255	1468.255
5	1458.552	1457.945	1455.519	1455.519	1455.519
10	1432.474	1431.261	1429.441	1429.441	1428.835
15	1363.943	1363.336	1361.517	1359.698	1357.878
20	1334.226	1331.800	1324.523	1321.490	1320.277
25	1211.113	1206.868	1198.378	1192.313	1189.281
30	1109.834	1103.769	1090.427	1078.904	1071.626
35	1009.160	1000.670	983.082	965.495	957.004
40	881.802	870.886	847.840	821.762	816.304
45	772.638	759.296	729.579	700.469	694.404
50	630.725	616.776	587.666	559.768	551.278
55	505.793	491.238	463.947	438.475	429.378
60	393.597	379.042	355.996	335.376	330.524
65	305.659	294.136	274.729	263.206	261.387
70	224.999	216.509	204.379	202.560	204.379
75	156.468	152.223	146.765	150.404	152.830
80	104.919	102.493	101.886	107.345	109.164
85	54.582	53.976	54.582	61.253	61.253
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	525.32	N.A.	16.60
0-30	1080.07	N.A.	34.10
0-40	1690.89	N.A.	53.30
0-60	2669.25	N.A.	84.20
0-80	3110.44	N.A.	98.10
0-90	3169.95	N.A.	100.00
10-90	3031.72	N.A.	95.60
20-40	1165.57	N.A.	36.80
20-50	1724.39	N.A.	54.40
40-70	1256.89	N.A.	39.70
60-80	441.19	N.A.	13.90
70-80	162.66	N.A.	5.10
80-90	59.51	N.A.	1.90
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	3169.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.23
10-20	387.09
20-30	554.75
30-40	610.82
40-50	558.83
50-60	419.53
60-70	278.53
70-80	162.66
80-90	59.51
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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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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	15.5	17.0	15.8	17.3	17.6	14.6	16.1	14.9	16.4	16.7
	3H	17.0	18.3	17.3	18.7	19.0	16.2	17.5	16.5	17.9	18.2
	4H	17.5	18.8	17.9	19.2	19.6	16.8	18.1	17.2	18.5	18.9
	6H	18.0	19.2	18.5	19.6	20.0	17.5	18.7	17.9	19.0	19.4
	8H	18.3	19.4	18.7	19.8	20.2	17.8	18.9	18.2	19.3	19.7
	12H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5	19.9

UGR Viewed Endwise

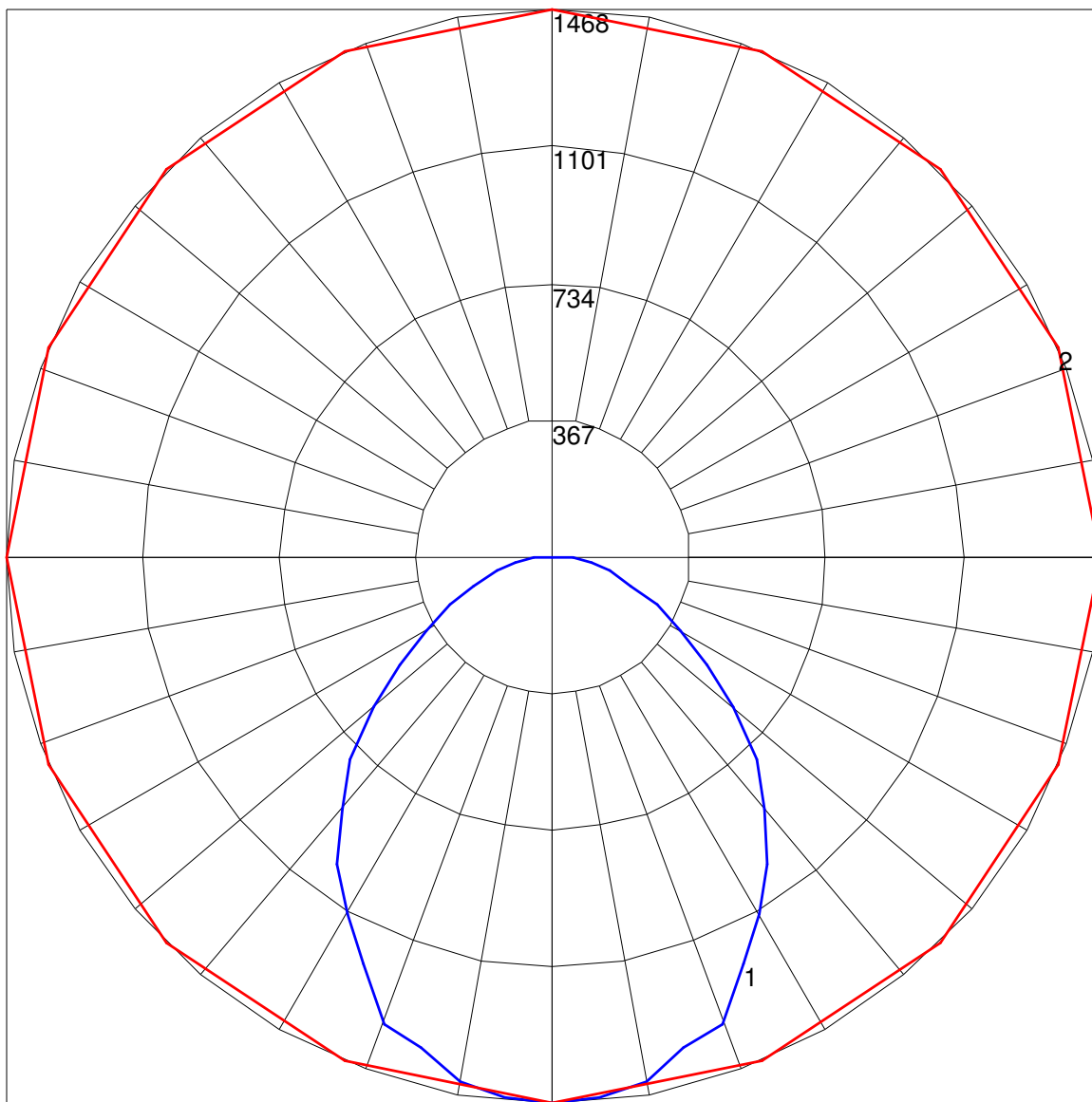
4H	2H	15.9	17.2	16.3	17.5	17.9	15.1	16.4	15.5	16.8	17.2
	3H	17.6	18.7	18.0	19.1	19.5	17.0	18.0	17.4	18.4	18.8
	4H	18.3	19.3	18.8	19.7	20.2	17.8	18.8	18.2	19.2	19.6
	6H	19.0	19.8	19.5	20.3	20.7	18.6	19.4	19.0	19.9	20.3
	8H	19.3	20.1	19.7	20.5	21.0	18.9	19.7	19.4	20.2	20.6
	12H	19.5	20.2	20.0	20.7	21.2	19.3	20.0	19.7	20.4	20.9

8H	4H	18.6	19.4	19.1	19.8	20.3	18.1	18.9	18.6	19.3	19.8
	6H	19.4	20.1	19.9	20.5	21.0	19.1	19.7	19.6	20.2	20.7
	8H	19.8	20.4	20.3	20.9	21.3	19.5	20.1	20.0	20.6	21.1
	12H	20.1	20.6	20.6	21.1	21.7	20.0	20.5	20.5	21.0	21.6

12H	4H	18.6	19.3	19.1	19.8	20.3	18.2	18.9	18.6	19.3	19.8
	6H	19.5	20.1	20.0	20.5	21.1	19.2	19.8	19.7	20.2	20.8
	8H	19.9	20.4	20.4	20.9	21.5	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1468.255 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)