



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L49)-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-(L49)-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	4125
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	41.3
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	5223	4932	4694
55	4215	3866	3578
65	3457	3107	2956
75	2890	2711	2823
85	2994	2994	3359

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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	1910.584	1910.584	1910.584	1910.584	1910.584
5	1897.958	1897.168	1894.012	1894.012	1894.012
10	1864.023	1862.445	1860.077	1860.077	1859.288
15	1774.847	1774.058	1771.690	1769.323	1766.955
20	1736.177	1733.021	1723.551	1719.605	1718.027
25	1575.976	1570.451	1559.403	1551.511	1547.565
30	1444.184	1436.292	1418.930	1403.936	1394.466
35	1313.182	1302.133	1279.247	1256.361	1245.313
40	1147.455	1133.250	1103.262	1069.327	1062.225
45	1005.405	988.043	949.373	911.493	903.601
50	820.738	802.587	764.707	728.405	717.357
55	658.169	639.229	603.716	570.571	558.733
60	512.172	493.232	463.244	436.412	430.099
65	397.742	382.748	357.495	342.500	340.133
70	292.783	281.734	265.951	263.583	265.951
75	203.606	198.082	190.980	195.715	198.871
80	136.527	133.370	132.581	139.683	142.051
85	71.025	70.236	71.025	79.706	79.706
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 11-4-L52-935-FAF12125-(L49)-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	683.58	N.A.	16.60
0-30	1405.46	N.A.	34.10
0-40	2200.29	N.A.	53.30
0-60	3473.39	N.A.	84.20
0-80	4047.5	N.A.	98.10
0-90	4124.93	N.A.	100.00
10-90	3945.06	N.A.	95.60
20-40	1516.71	N.A.	36.80
20-50	2243.89	N.A.	54.40
40-70	1635.55	N.A.	39.70
60-80	574.11	N.A.	13.90
70-80	211.66	N.A.	5.10
80-90	77.43	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	4124.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.87
10-20	503.71
20-30	721.88
30-40	794.83
40-50	727.18
50-60	545.92
60-70	362.45
70-80	211.66
80-90	77.43
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

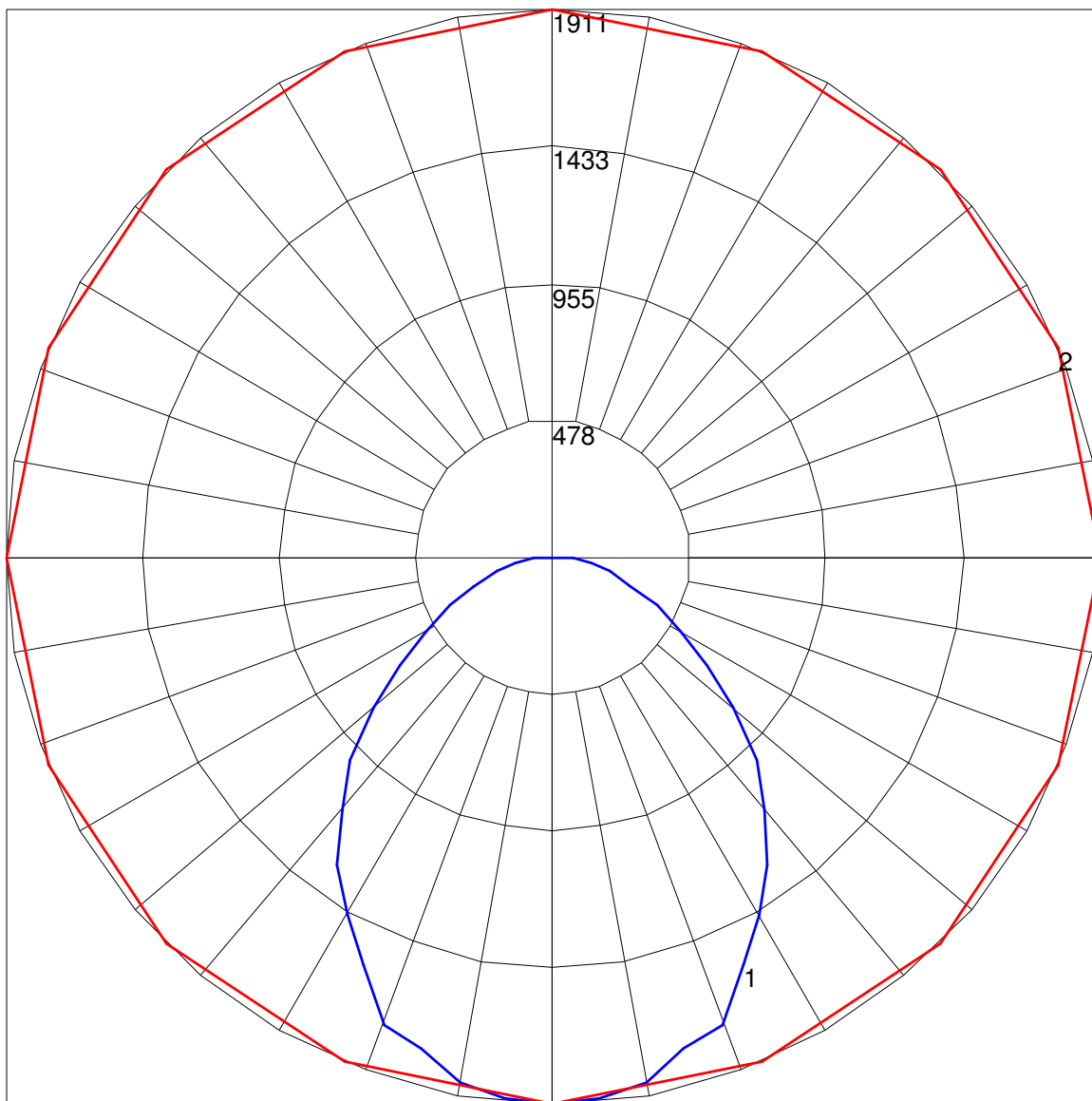
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	16.4	17.9	16.7	18.2	18.5	15.5	17.0	15.8	17.3	17.6
	3H	17.9	19.2	18.2	19.6	19.9	17.1	18.4	17.4	18.8	19.1
	4H	18.4	19.7	18.8	20.1	20.5	17.7	19.0	18.1	19.4	19.8
	6H	18.9	20.1	19.4	20.5	20.9	18.4	19.6	18.8	19.9	20.3
	8H	19.2	20.3	19.6	20.7	21.1	18.7	19.8	19.1	20.2	20.6
	12H	19.3	20.4	19.7	20.8	21.2	18.9	20.0	19.3	20.4	20.8
4H	2H	16.8	18.1	17.2	18.4	18.8	16.0	17.3	16.4	17.7	18.1
	3H	18.5	19.6	18.9	20.0	20.4	17.9	18.9	18.3	19.3	19.7
	4H	19.2	20.2	19.7	20.6	21.1	18.7	19.7	19.1	20.1	20.5
	6H	19.9	20.7	20.4	21.2	21.6	19.5	20.3	19.9	20.8	21.2
	8H	20.2	21.0	20.6	21.4	21.9	19.8	20.6	20.3	21.1	21.5
	12H	20.4	21.1	20.9	21.6	22.1	20.2	20.9	20.6	21.3	21.8
8H	4H	19.5	20.3	20.0	20.7	21.2	19.0	19.8	19.5	20.2	20.7
	6H	20.3	21.0	20.8	21.4	21.9	20.0	20.6	20.5	21.1	21.6
	8H	20.7	21.3	21.2	21.8	22.2	20.4	21.0	20.9	21.5	22.0
	12H	21.0	21.5	21.5	22.0	22.6	20.9	21.4	21.4	21.9	22.5
12H	4H	19.5	20.2	20.0	20.7	21.2	19.1	19.8	19.5	20.2	20.7
	6H	20.4	21.0	20.9	21.4	22.0	20.1	20.7	20.6	21.1	21.7
	8H	20.8	21.3	21.3	21.8	22.4	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1910.584 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.)