



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-L43-935-FAF12125-(L27)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 18637.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 10-12-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2' SURFACE MOUNT LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 12-2-L43-935-FAF12125-(L27)-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	2384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	22.2
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)	1.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2701	2640	2610
55	2257	2171	2133
65	1867	1786	1770
75	1585	1551	1649
85	1647	1669	1938

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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	1089.400	1089.400	1089.400	1089.400	1089.400
5	1063.644	1063.644	1062.229	1061.663	1062.229
10	1046.662	1045.247	1044.681	1045.247	1044.681
15	995.716	994.301	993.168	993.168	993.168
20	969.960	966.846	966.846	965.997	964.299
25	888.729	888.163	885.615	884.483	885.615
30	809.479	808.347	805.233	803.252	803.818
35	730.512	727.965	723.436	721.455	721.455
40	644.187	639.941	633.714	628.054	628.054
45	553.616	549.370	541.162	534.935	534.935
50	458.799	454.554	446.346	440.119	440.119
55	375.304	369.077	360.869	353.793	354.642
60	296.620	290.393	283.601	279.072	279.638
65	228.692	223.031	218.786	216.804	216.804
70	172.934	168.406	164.726	167.273	169.821
75	118.875	116.327	116.327	120.007	123.686
80	79.250	79.250	79.250	84.344	88.024
85	41.606	41.606	42.172	47.833	48.965
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	383.65	N.A.	16.10
0-30	792.16	N.A.	33.20
0-40	1244.31	N.A.	52.20
0-60	1988.02	N.A.	83.40
0-80	2337.67	N.A.	98.10
0-90	2383.97	N.A.	100.00
10-90	2282.84	N.A.	95.80
20-40	860.66	N.A.	36.10
20-50	1278.63	N.A.	53.60
40-70	964.95	N.A.	40.50
60-80	349.65	N.A.	14.70
70-80	128.41	N.A.	5.40
80-90	46.30	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	2383.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.13
10-20	282.52
20-30	408.51
30-40	452.16
40-50	417.97
50-60	325.74
60-70	221.24
70-80	128.41
80-90	46.30
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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

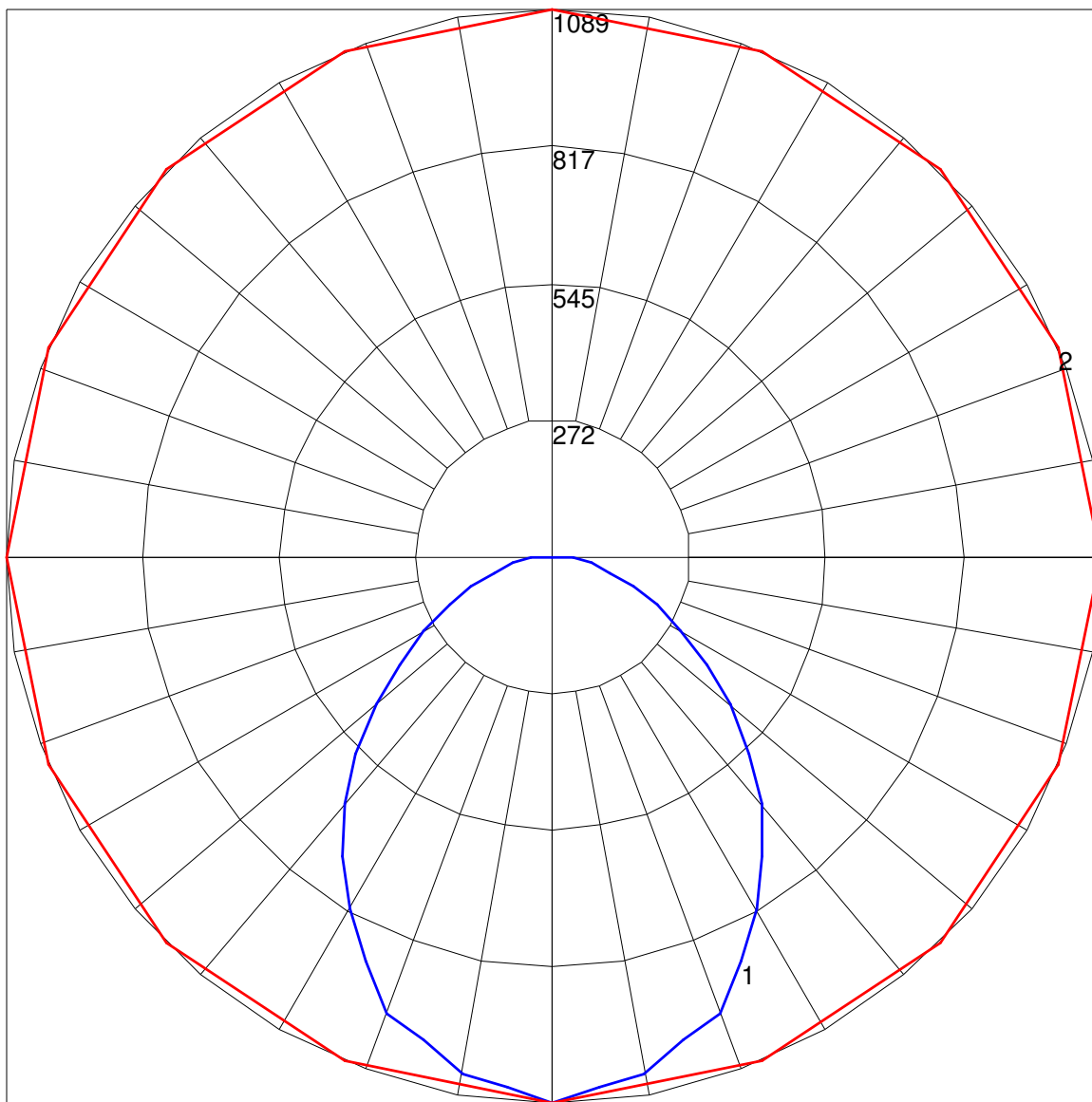
X=2H	Y=2H	14.3	15.8	14.6	16.1	16.4	14.0	15.5	14.3	15.8	16.1
	3H	15.8	17.2	16.2	17.5	17.9	15.6	17.0	16.0	17.3	17.6
	4H	16.4	17.7	16.8	18.0	18.4	16.2	17.5	16.6	17.9	18.3
	6H	16.9	18.1	17.3	18.5	18.9	16.8	18.0	17.2	18.4	18.8
	8H	17.1	18.2	17.5	18.6	19.0	17.1	18.2	17.5	18.6	19.0
	12H	17.2	18.4	17.7	18.7	19.2	17.3	18.4	17.7	18.8	19.2

UGR Viewed Endwise

4H	2H	14.7	16.0	15.1	16.4	16.8	14.5	15.8	14.9	16.1	16.5
	3H	16.5	17.6	16.9	18.0	18.4	16.3	17.4	16.7	17.8	18.2
	4H	17.2	18.2	17.7	18.6	19.1	17.1	18.1	17.6	18.5	19.0
	6H	17.9	18.7	18.3	19.2	19.6	17.9	18.8	18.3	19.2	19.7
	8H	18.1	19.0	18.6	19.4	19.9	18.2	19.0	18.7	19.5	19.9
	12H	18.4	19.1	18.9	19.6	20.0	18.5	19.3	19.0	19.7	20.2
8H	4H	17.5	18.3	18.0	18.8	19.2	17.4	18.2	17.9	18.7	19.1
	6H	18.3	19.0	18.8	19.5	20.0	18.4	19.0	18.9	19.5	20.0
	8H	18.7	19.3	19.2	19.8	20.3	18.8	19.4	19.3	19.9	20.4
	12H	19.0	19.5	19.5	20.0	20.6	19.2	19.7	19.7	20.2	20.8
12H	4H	17.5	18.3	18.0	18.8	19.2	17.5	18.2	17.9	18.7	19.1
	6H	18.4	19.0	18.9	19.5	20.0	18.4	19.0	19.0	19.5	20.0
	8H	18.8	19.4	19.3	19.8	20.4	18.9	19.5	19.4	19.9	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1089.4 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.)