



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L61-935-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20203.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-07-21
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x2 RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-22-L61-935-AF-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Classroom, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5093
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	50.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4404	4730	5092
55	3992	4654	5250
65	3517	4609	5690
75	2707	4885	6651
85	1176	3970	3872

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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	1694.707	1694.707	1694.707	1694.707	1694.707
5	1693.247	1685.949	1684.489	1678.650	1683.030
10	1664.054	1656.755	1662.594	1656.755	1661.134
15	1620.263	1617.343	1626.101	1629.021	1633.400
20	1550.197	1560.415	1573.552	1588.149	1591.069
25	1469.914	1490.350	1509.326	1532.681	1538.520
30	1383.792	1407.147	1434.881	1469.914	1481.591
35	1288.912	1309.347	1342.920	1395.469	1407.147
40	1180.894	1201.330	1248.040	1303.509	1322.485
45	1064.118	1083.094	1142.942	1201.330	1230.524
50	926.907	951.722	1027.626	1087.474	1129.805
55	782.397	817.430	912.310	977.996	1029.086
60	645.186	684.597	794.075	877.277	926.907
65	507.974	550.305	665.621	778.018	821.809
70	373.682	418.933	547.386	670.000	715.251
75	239.390	294.859	432.070	553.225	588.258
80	118.235	185.381	297.778	407.255	395.578
85	35.033	71.525	118.235	199.978	115.316
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	618.42	N.A.	12.10
0-30	1314.43	N.A.	25.80
0-40	2158.36	N.A.	42.40
0-60	3849.15	N.A.	75.60
0-80	4951.32	N.A.	97.20
0-90	5092.66	N.A.	100.00
10-90	4932.64	N.A.	96.90
20-40	1539.94	N.A.	30.20
20-50	2421.33	N.A.	47.50
40-70	2349.7	N.A.	46.10
60-80	1102.17	N.A.	21.60
70-80	443.26	N.A.	8.70
80-90	141.34	N.A.	2.80
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	5092.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.02
10-20	458.40
20-30	696.01
30-40	843.93
40-50	881.39
50-60	809.41
60-70	658.90
70-80	443.26
80-90	141.34
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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

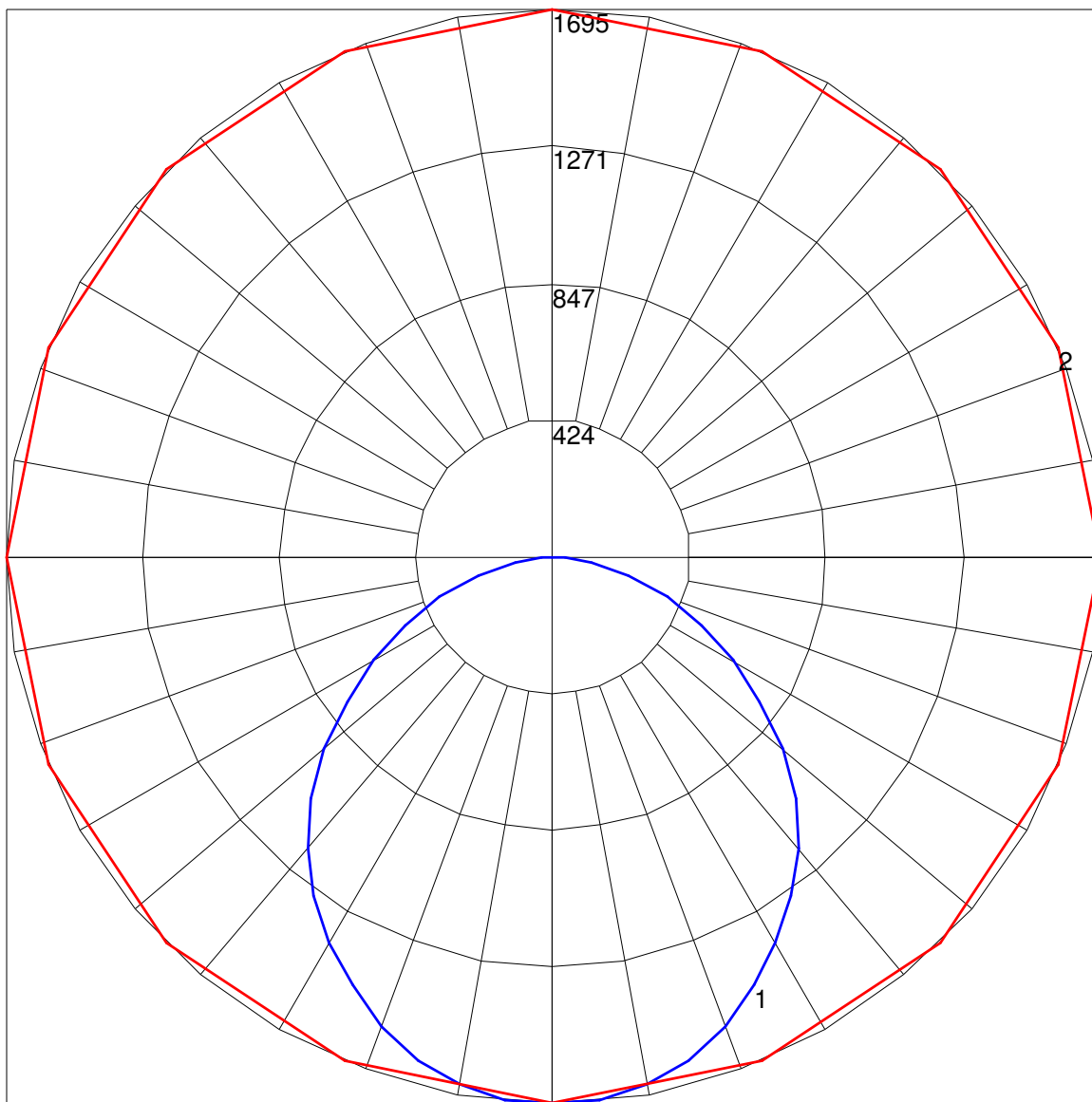
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UGR TABLE - CORRECTED

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	16.6	18.3	17.0	18.6	18.9	18.2	19.9	18.6	20.2	20.5
	3H	18.2	19.8	18.6	20.1	20.4	20.8	22.3	21.1	22.6	23.0
	4H	18.8	20.2	19.2	20.6	21.0	21.9	23.4	22.3	23.7	24.1
	6H	19.1	20.5	19.5	20.8	21.2	22.9	24.2	23.3	24.6	25.0
	8H	19.2	20.5	19.6	20.9	21.3	23.2	24.5	23.6	24.9	25.3
	12H	19.2	20.5	19.7	20.8	21.3	23.3	24.6	23.8	25.0	25.4
4H	2H	17.5	19.0	17.9	19.3	19.7	18.8	20.2	19.2	20.6	20.9
	3H	19.4	20.6	19.8	21.0	21.4	21.6	22.8	22.0	23.2	23.6
	4H	20.1	21.2	20.5	21.6	22.1	22.9	24.1	23.4	24.5	24.9
	6H	20.6	21.5	21.0	22.0	22.4	24.1	25.1	24.6	25.6	26.0
	8H	20.7	21.6	21.1	22.0	22.5	24.5	25.4	25.0	25.9	26.3
	12H	20.7	21.6	21.2	22.0	22.5	24.7	25.6	25.2	26.0	26.5
8H	4H	20.8	21.8	21.3	22.2	22.7	23.2	24.2	23.7	24.6	25.1
	6H	21.5	22.2	22.0	22.7	23.2	24.6	25.4	25.1	25.9	26.4
	8H	21.7	22.4	22.2	22.9	23.3	25.2	25.9	25.7	26.4	26.8
	12H	21.8	22.4	22.3	22.9	23.4	25.5	26.1	26.0	26.6	27.2
12H	4H	21.0	21.8	21.5	22.3	22.8	23.3	24.1	23.7	24.6	25.0
	6H	21.8	22.4	22.3	22.9	23.4	24.7	25.4	25.2	25.8	26.4
	8H	22.0	22.6	22.5	23.1	23.7	25.3	25.9	25.8	26.4	26.9

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 1694.707 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.)