



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L61-835-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-L61-835-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	6136
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
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	5306	5699	6135
55	4809	5608	6326
65	4238	5553	6856
75	3261	5886	8013
85	1417	4783	4665

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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	2041.816	2041.816	2041.816	2041.816	2041.816
5	2040.057	2031.264	2029.505	2022.470	2027.746
10	2004.884	1996.090	2003.125	1996.090	2001.366
15	1952.124	1948.606	1959.158	1962.676	1967.952
20	1867.708	1880.018	1895.846	1913.433	1916.950
25	1770.981	1795.602	1818.465	1846.603	1853.638
30	1667.219	1695.358	1728.773	1770.981	1785.050
35	1552.906	1577.527	1617.976	1681.288	1695.358
40	1422.764	1447.385	1503.663	1570.492	1593.355
45	1282.070	1304.933	1377.039	1447.385	1482.559
50	1116.755	1146.653	1238.104	1310.209	1361.211
55	942.647	984.855	1099.169	1178.309	1239.862
60	777.332	824.816	956.716	1056.961	1116.755
65	612.017	663.019	801.954	937.371	990.131
70	450.220	504.738	659.501	807.230	861.748
75	288.422	355.251	520.566	666.536	708.744
80	142.452	223.351	358.769	490.669	476.600
85	42.208	86.175	142.452	240.938	138.935
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	745.08	N.A.	12.10
0-30	1583.64	N.A.	25.80
0-40	2600.43	N.A.	42.40
0-60	4637.53	N.A.	75.60
0-80	5965.44	N.A.	97.20
0-90	6135.74	N.A.	100.00
10-90	5942.94	N.A.	96.90
20-40	1855.35	N.A.	30.20
20-50	2917.26	N.A.	47.50
40-70	2830.96	N.A.	46.10
60-80	1327.91	N.A.	21.60
70-80	534.05	N.A.	8.70
80-90	170.30	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	6135.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.79
10-20	552.28
20-30	838.57
30-40	1016.78
40-50	1061.91
50-60	975.19
60-70	793.86
70-80	534.05
80-90	170.30
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	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

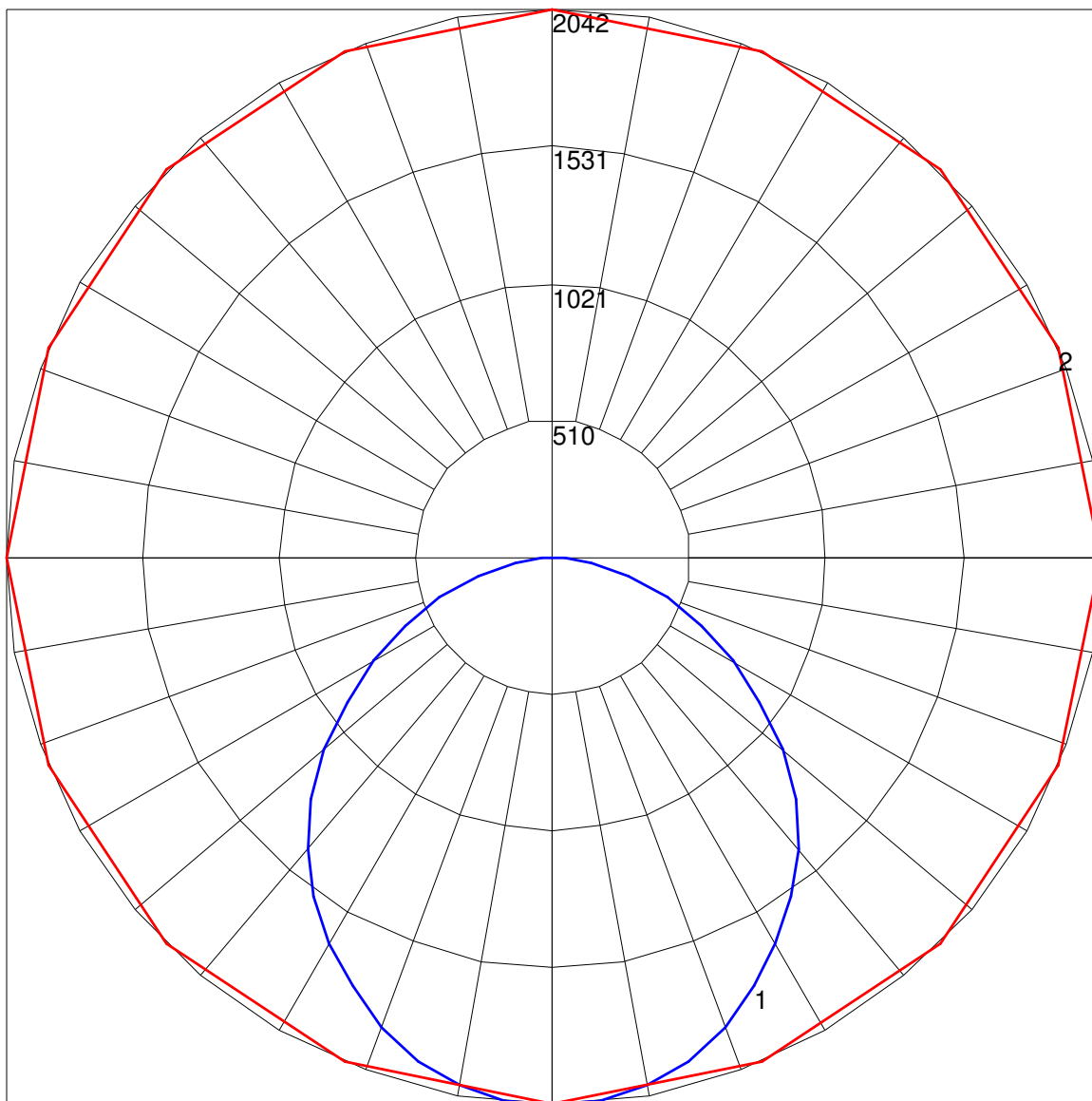
Reflectances

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	17.2	18.9	17.6	19.2	19.5	18.8	20.5	19.2	20.8	21.1
	3H	18.8	20.4	19.2	20.7	21.0	21.4	22.9	21.7	23.2	23.6
	4H	19.4	20.8	19.8	21.2	21.6	22.5	24.0	22.9	24.3	24.7
	6H	19.7	21.1	20.1	21.4	21.8	23.5	24.8	23.9	25.2	25.6
	8H	19.8	21.1	20.2	21.5	21.9	23.8	25.1	24.2	25.5	25.9
	12H	19.8	21.1	20.3	21.4	21.9	23.9	25.2	24.4	25.6	26.0
4H	2H	18.1	19.6	18.5	19.9	20.3	19.4	20.8	19.8	21.2	21.5
	3H	20.0	21.2	20.4	21.6	22.0	22.2	23.4	22.6	23.8	24.2
	4H	20.7	21.8	21.1	22.2	22.7	23.5	24.7	24.0	25.1	25.5
	6H	21.2	22.1	21.6	22.6	23.0	24.7	25.7	25.2	26.2	26.6
	8H	21.3	22.2	21.7	22.6	23.1	25.1	26.0	25.6	26.5	26.9
	12H	21.3	22.2	21.8	22.6	23.1	25.3	26.2	25.8	26.6	27.1
8H	4H	21.4	22.4	21.9	22.8	23.3	23.8	24.8	24.3	25.2	25.7
	6H	22.1	22.8	22.6	23.3	23.8	25.2	26.0	25.7	26.5	27.0
	8H	22.3	23.0	22.8	23.5	23.9	25.8	26.5	26.3	27.0	27.4
	12H	22.4	23.0	22.9	23.5	24.0	26.1	26.7	26.6	27.2	27.8
12H	4H	21.6	22.4	22.1	22.9	23.4	23.9	24.7	24.3	25.2	25.6
	6H	22.4	23.0	22.9	23.5	24.0	25.3	26.0	25.8	26.4	27.0
	8H	22.6	23.2	23.1	23.7	24.3	25.9	26.5	26.4	27.0	27.5

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 2041.816 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.)