



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L61-840-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-L61-840-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	6320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	5465	5870	6320
55	4954	5776	6515
65	4365	5719	7062
75	3359	6062	8254
85	1460	4926	4805

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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	2103.070	2103.070	2103.070	2103.070	2103.070
5	2101.259	2092.202	2090.390	2083.144	2088.579
10	2065.030	2055.973	2063.219	2055.973	2061.407
15	2010.687	2007.064	2017.933	2021.556	2026.990
20	1923.739	1936.419	1952.722	1970.836	1974.459
25	1824.110	1849.470	1873.019	1902.001	1909.247
30	1717.236	1746.218	1780.636	1824.110	1838.601
35	1599.493	1624.853	1666.516	1731.727	1746.218
40	1465.447	1490.807	1548.773	1617.607	1641.156
45	1320.532	1344.081	1418.350	1490.807	1527.035
50	1150.258	1181.052	1275.247	1349.515	1402.047
55	970.926	1014.401	1132.144	1213.658	1277.058
60	800.652	849.561	985.418	1088.669	1150.258
65	630.378	682.909	826.012	965.492	1019.835
70	463.726	519.880	679.286	831.446	887.601
75	297.075	365.909	536.183	686.532	730.006
80	146.726	230.052	369.532	505.389	490.898
85	43.474	88.760	146.726	248.166	143.103
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	767.43	N.A.	12.10
0-30	1631.15	N.A.	25.80
0-40	2678.44	N.A.	42.40
0-60	4776.65	N.A.	75.60
0-80	6144.4	N.A.	97.20
0-90	6319.81	N.A.	100.00
10-90	6121.23	N.A.	96.90
20-40	1911.01	N.A.	30.20
20-50	3004.78	N.A.	47.50
40-70	2915.89	N.A.	46.10
60-80	1367.75	N.A.	21.60
70-80	550.07	N.A.	8.70
80-90	175.40	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	6319.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.58
10-20	568.85
20-30	863.72
30-40	1047.29
40-50	1093.77
50-60	1004.44
60-70	817.68
70-80	550.07
80-90	175.40
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	90	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

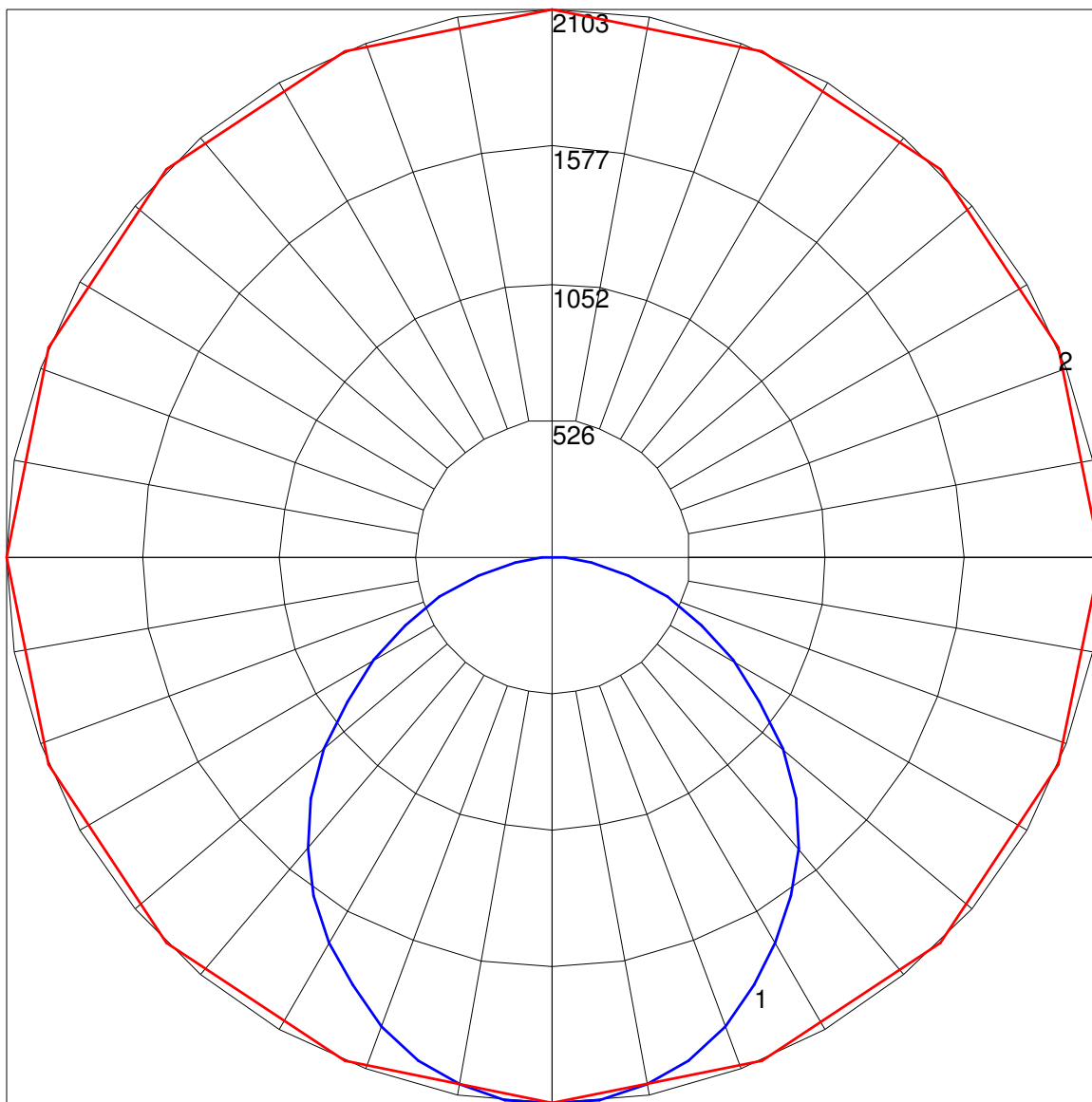
Reflectances

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	17.3	19.0	17.7	19.3	19.6	18.9	20.6	19.3	20.9	21.2
	3H	18.9	20.5	19.3	20.8	21.1	21.5	23.0	21.8	23.3	23.7
	4H	19.5	20.9	19.9	21.3	21.7	22.6	24.1	23.0	24.4	24.8
	6H	19.8	21.2	20.2	21.5	21.9	23.6	24.9	24.0	25.3	25.7
	8H	19.9	21.2	20.3	21.6	22.0	23.9	25.2	24.3	25.6	26.0
	12H	19.9	21.2	20.4	21.5	22.0	24.0	25.3	24.5	25.7	26.1
4H	2H	18.2	19.7	18.6	20.0	20.4	19.5	20.9	19.9	21.3	21.6
	3H	20.1	21.3	20.5	21.7	22.1	22.3	23.5	22.7	23.9	24.3
	4H	20.8	21.9	21.2	22.3	22.8	23.6	24.8	24.1	25.2	25.6
	6H	21.3	22.2	21.7	22.7	23.1	24.8	25.8	25.3	26.3	26.7
	8H	21.4	22.3	21.8	22.7	23.2	25.2	26.1	25.7	26.6	27.0
	12H	21.4	22.3	21.9	22.7	23.2	25.4	26.3	25.9	26.7	27.2
8H	4H	21.5	22.5	22.0	22.9	23.4	23.9	24.9	24.4	25.3	25.8
	6H	22.2	22.9	22.7	23.4	23.9	25.3	26.1	25.8	26.6	27.1
	8H	22.4	23.1	22.9	23.6	24.0	25.9	26.6	26.4	27.1	27.5
	12H	22.5	23.1	23.0	23.6	24.1	26.2	26.8	26.7	27.3	27.9
12H	4H	21.7	22.5	22.2	23.0	23.5	24.0	24.8	24.4	25.3	25.7
	6H	22.5	23.1	23.0	23.6	24.1	25.4	26.1	25.9	26.5	27.1
	8H	22.7	23.3	23.2	23.8	24.4	26.0	26.6	26.5	27.1	27.6

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 2103.07 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.)