



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-22-L61-850-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-L61-850-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	6504
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	5624	6041	6504
55	5098	5944	6705
65	4492	5886	7267
75	3457	6239	8494
85	1502	5070	4945

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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	2164.325	2164.325	2164.325	2164.325	2164.325
5	2162.460	2153.139	2151.275	2143.818	2149.411
10	2125.177	2115.856	2123.312	2115.856	2121.448
15	2069.251	2065.523	2076.708	2080.436	2086.029
20	1979.770	1992.819	2009.597	2028.239	2031.967
25	1877.239	1903.338	1927.572	1957.399	1964.856
30	1767.252	1797.079	1832.499	1877.239	1892.153
35	1646.080	1672.178	1715.055	1782.166	1797.079
40	1508.130	1534.228	1593.882	1664.722	1688.956
45	1358.994	1383.229	1459.661	1534.228	1571.512
50	1183.761	1215.452	1312.390	1388.822	1442.883
55	999.206	1043.946	1165.119	1249.007	1314.254
60	823.972	874.305	1014.119	1120.378	1183.761
65	648.738	702.800	850.071	993.613	1049.539
70	477.233	535.023	699.071	855.663	913.453
75	305.727	376.566	551.800	706.528	751.269
80	150.999	236.752	380.295	520.109	505.195
85	44.741	91.345	150.999	255.394	147.271
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	789.78	N.A.	12.10
0-30	1678.66	N.A.	25.80
0-40	2756.45	N.A.	42.40
0-60	4915.78	N.A.	75.60
0-80	6323.37	N.A.	97.20
0-90	6503.88	N.A.	100.00
10-90	6299.52	N.A.	96.90
20-40	1966.67	N.A.	30.20
20-50	3092.3	N.A.	47.50
40-70	3000.82	N.A.	46.10
60-80	1407.59	N.A.	21.60
70-80	566.10	N.A.	8.70
80-90	180.51	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	6503.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.36
10-20	585.42
20-30	888.88
30-40	1077.79
40-50	1125.63
50-60	1033.7
60-70	841.49
70-80	566.10
80-90	180.51
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

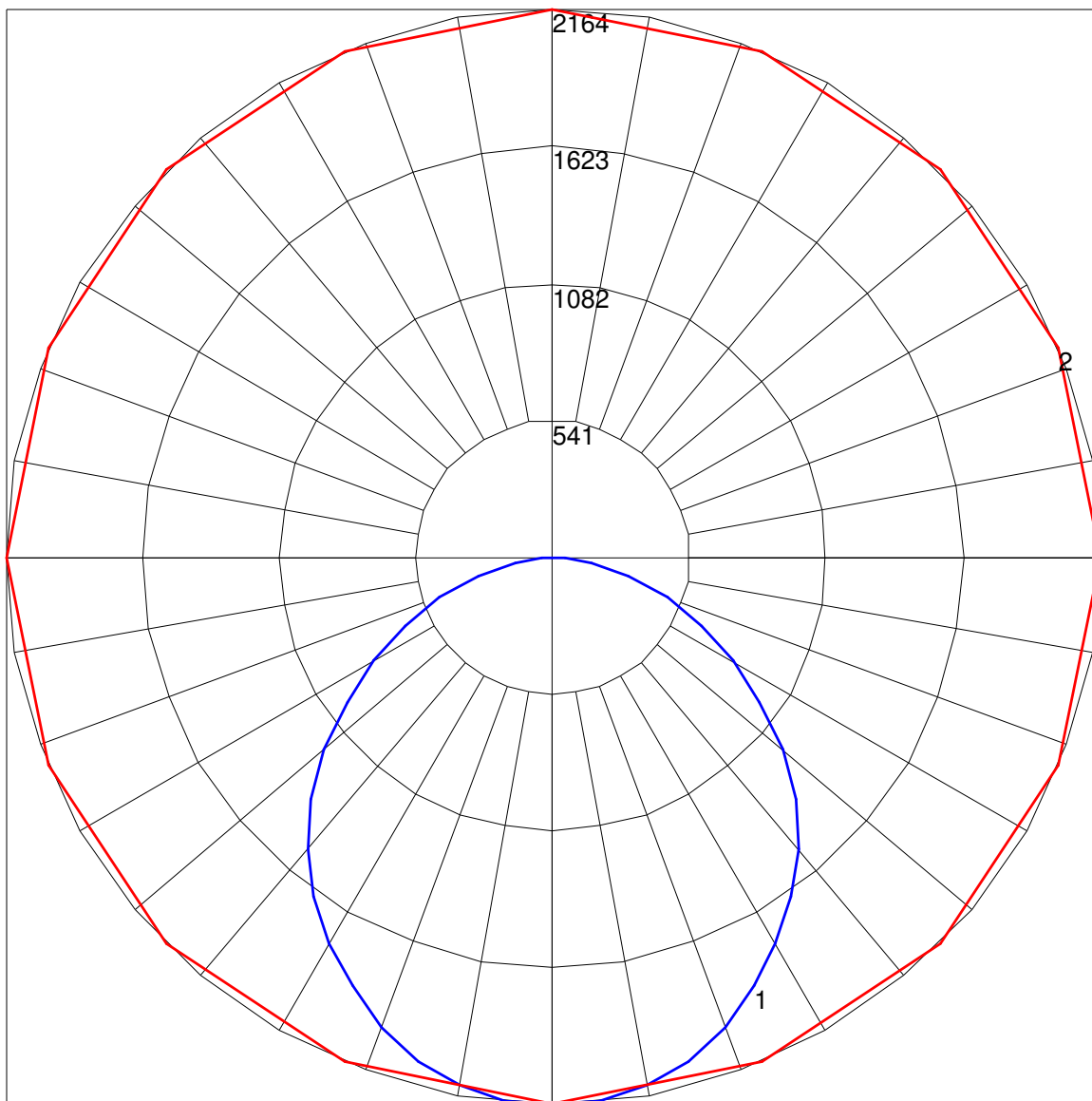
Reflectances

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	17.4	19.1	17.8	19.4	19.7	19.0	20.7	19.4	21.0	21.3
	3H	19.0	20.6	19.4	20.9	21.2	21.6	23.1	21.9	23.4	23.8
	4H	19.6	21.0	20.0	21.4	21.8	22.7	24.2	23.1	24.5	24.9
	6H	19.9	21.3	20.3	21.6	22.0	23.7	25.0	24.1	25.4	25.8
	8H	20.0	21.3	20.4	21.7	22.1	24.0	25.3	24.4	25.7	26.1
	12H	20.0	21.3	20.5	21.6	22.1	24.1	25.4	24.6	25.8	26.2
4H	2H	18.3	19.8	18.7	20.1	20.5	19.6	21.0	20.0	21.4	21.7
	3H	20.2	21.4	20.6	21.8	22.2	22.4	23.6	22.8	24.0	24.4
	4H	20.9	22.0	21.3	22.4	22.9	23.7	24.9	24.2	25.3	25.7
	6H	21.4	22.3	21.8	22.8	23.2	24.9	25.9	25.4	26.4	26.8
	8H	21.5	22.4	21.9	22.8	23.3	25.3	26.2	25.8	26.7	27.1
	12H	21.5	22.4	22.0	22.8	23.3	25.5	26.4	26.0	26.8	27.3
8H	4H	21.6	22.6	22.1	23.0	23.5	24.0	25.0	24.5	25.4	25.9
	6H	22.3	23.0	22.8	23.5	24.0	25.4	26.2	25.9	26.7	27.2
	8H	22.5	23.2	23.0	23.7	24.1	26.0	26.7	26.5	27.2	27.6
	12H	22.6	23.2	23.1	23.7	24.2	26.3	26.9	26.8	27.4	28.0
12H	4H	21.8	22.6	22.3	23.1	23.6	24.1	24.9	24.5	25.4	25.8
	6H	22.6	23.2	23.1	23.7	24.2	25.5	26.2	26.0	26.6	27.2
	8H	22.8	23.4	23.3	23.9	24.5	26.1	26.7	26.6	27.2	27.7

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 2164.325 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.)