



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L82-927-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20802.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-07-24
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
 [LUMINAIRE] WHITE REFLECTOR w/FROSTED CENTER LENS
 [LUMINAIRE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-24-L82-927-AF-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAYS
 [_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	6571
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	64.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.93 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2715	3017	3246
55	2470	2927	3273
65	2109	2909	3426
75	1555	3056	3833
85	595	2453	2255

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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	2282.685	2282.685	2282.685	2282.685	2282.685
5	2304.571	2277.213	2262.988	2257.516	2257.516
10	2261.893	2233.442	2225.782	2226.876	2223.593
15	2194.047	2174.350	2171.067	2178.727	2183.105
20	2105.410	2087.901	2095.562	2116.353	2120.730
25	1989.416	1974.096	2001.453	2030.999	2037.564
30	1855.912	1852.630	1889.835	1929.230	1944.550
35	1699.429	1712.561	1767.275	1817.612	1836.215
40	1534.192	1558.266	1642.526	1700.524	1722.409
45	1336.126	1377.709	1484.949	1581.246	1597.660
50	1170.888	1222.320	1327.371	1421.480	1448.837
55	985.953	1037.385	1168.700	1269.374	1306.580
60	804.302	861.205	1001.274	1122.739	1157.757
65	620.461	699.250	855.733	973.916	1007.839
70	448.658	537.295	699.250	825.093	852.450
75	280.138	388.472	550.427	663.139	690.496
80	134.597	251.686	399.415	451.941	436.621
85	36.112	124.749	148.823	132.409	136.786
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	829.94	N.A.	12.60
0-30	1754.11	N.A.	26.70
0-40	2860.02	N.A.	43.50
0-60	5035.82	N.A.	76.60
0-80	6409.5	N.A.	97.50
0-90	6570.99	N.A.	100.00
10-90	6355.52	N.A.	96.70
20-40	2030.08	N.A.	30.90
20-50	3171.31	N.A.	48.30
40-70	3003.33	N.A.	45.70
60-80	1373.68	N.A.	20.90
70-80	546.15	N.A.	8.30
80-90	161.49	N.A.	2.50
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	6570.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.47
10-20	614.47
20-30	924.17
30-40	1105.91
40-50	1141.23
50-60	1034.57
60-70	827.53
70-80	546.15
80-90	161.49
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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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UGR TABLE - CORRECTED

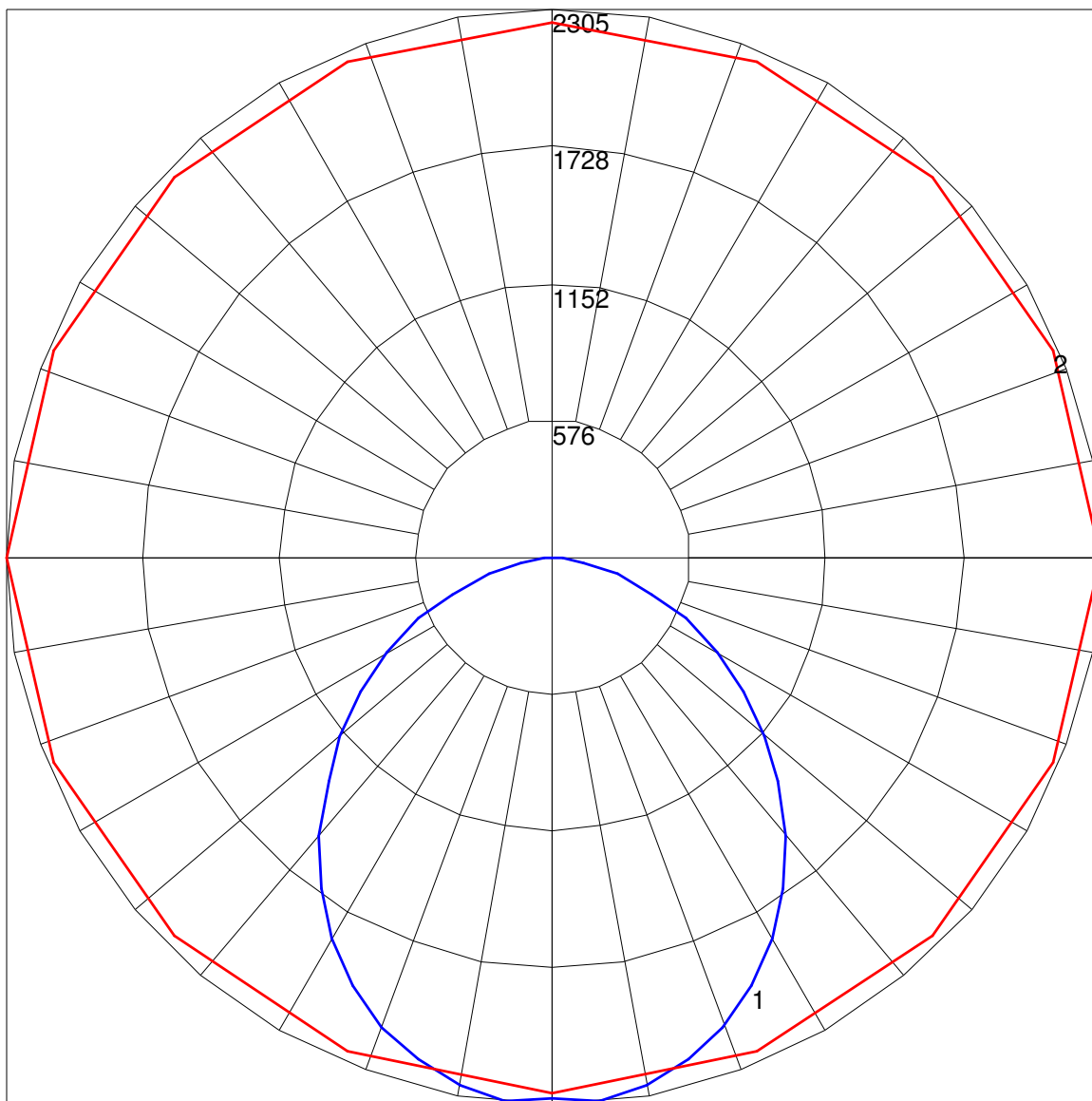
Reflectances

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	14.8	16.5	15.2	16.8	17.1	16.5	18.2	16.9	18.5	18.8
	3H	16.4	17.9	16.8	18.2	18.6	18.9	20.4	19.3	20.7	21.1
	4H	16.9	18.3	17.3	18.7	19.1	19.9	21.4	20.3	21.7	22.1
	6H	17.2	18.6	17.6	18.9	19.3	20.8	22.1	21.2	22.5	22.9
	8H	17.3	18.6	17.7	19.0	19.4	21.0	22.3	21.4	22.7	23.1
	12H	17.3	18.6	17.8	18.9	19.4	21.1	22.4	21.6	22.7	23.2
4H	2H	15.8	17.2	16.2	17.5	17.9	17.1	18.5	17.5	18.9	19.2
	3H	17.6	18.8	18.0	19.2	19.6	19.7	20.9	20.1	21.3	21.7
	4H	18.3	19.4	18.7	19.8	20.3	21.0	22.1	21.4	22.5	22.9
	6H	18.8	19.7	19.2	20.2	20.6	22.0	23.0	22.5	23.4	23.8
	8H	18.9	19.8	19.4	20.2	20.7	22.3	23.2	22.8	23.6	24.1
	12H	19.0	19.8	19.4	20.2	20.7	22.5	23.3	22.9	23.7	24.2
8H	4H	19.1	20.0	19.5	20.4	20.9	21.3	22.2	21.8	22.6	23.1
	6H	19.7	20.5	20.2	21.0	21.4	22.5	23.2	23.0	23.7	24.2
	8H	20.0	20.6	20.5	21.1	21.6	22.9	23.6	23.4	24.1	24.6
	12H	20.1	20.7	20.6	21.2	21.7	23.1	23.7	23.6	24.2	24.8
12H	4H	19.2	20.0	19.7	20.5	21.0	21.3	22.1	21.8	22.6	23.1
	6H	20.0	20.7	20.5	21.1	21.7	22.6	23.2	23.1	23.7	24.2
	8H	20.3	20.9	20.8	21.4	21.9	23.0	23.6	23.5	24.1	24.7

Maximum UGR = 24.8

POLAR GRAPH



Maximum Candela = 2304.571 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)