



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L64-827-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-L64-827-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	6204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	48.5
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	2563	2849	3065
55	2332	2764	3090
65	1992	2747	3235
75	1468	2885	3619
85	562	2316	2129

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LT-24-L64-827-AF-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2155.170	2155.170	2155.170	2155.170	2155.170
5	2175.833	2150.004	2136.573	2131.407	2131.407
10	2135.540	2108.678	2101.445	2102.479	2099.379
15	2071.484	2052.887	2049.787	2057.020	2061.152
20	1987.798	1971.267	1978.500	1998.130	2002.262
25	1878.283	1863.819	1889.648	1917.543	1923.742
30	1752.238	1749.138	1784.266	1821.459	1835.924
35	1604.496	1616.894	1668.552	1716.077	1733.641
40	1448.489	1471.218	1550.772	1605.529	1626.192
45	1261.487	1300.747	1401.997	1492.915	1508.412
50	1105.480	1154.039	1253.222	1342.074	1367.903
55	930.876	979.435	1103.414	1198.464	1233.592
60	759.372	813.096	945.341	1060.021	1093.082
65	585.801	660.189	807.930	919.512	951.539
70	423.595	507.281	660.189	779.002	804.831
75	264.489	366.771	519.679	626.094	651.923
80	127.079	237.627	377.103	426.695	412.230
85	34.094	117.780	140.510	125.012	129.145
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-24-L64-827-AF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	783.58	N.A.	12.60
0-30	1656.12	N.A.	26.70
0-40	2700.25	N.A.	43.50
0-60	4754.51	N.A.	76.60
0-80	6051.45	N.A.	97.50
0-90	6203.92	N.A.	100.00
10-90	6000.49	N.A.	96.70
20-40	1916.68	N.A.	30.90
20-50	2994.15	N.A.	48.30
40-70	2835.56	N.A.	45.70
60-80	1296.95	N.A.	20.90
70-80	515.64	N.A.	8.30
80-90	152.47	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	6203.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.43
10-20	580.14
20-30	872.55
30-40	1044.13
40-50	1077.48
50-60	976.78
60-70	781.31
70-80	515.64
80-90	152.47
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-24-L64-827-AF-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-24-L64-827-AF-DIM-UNV_.IES

UGR TABLE - CORRECTED

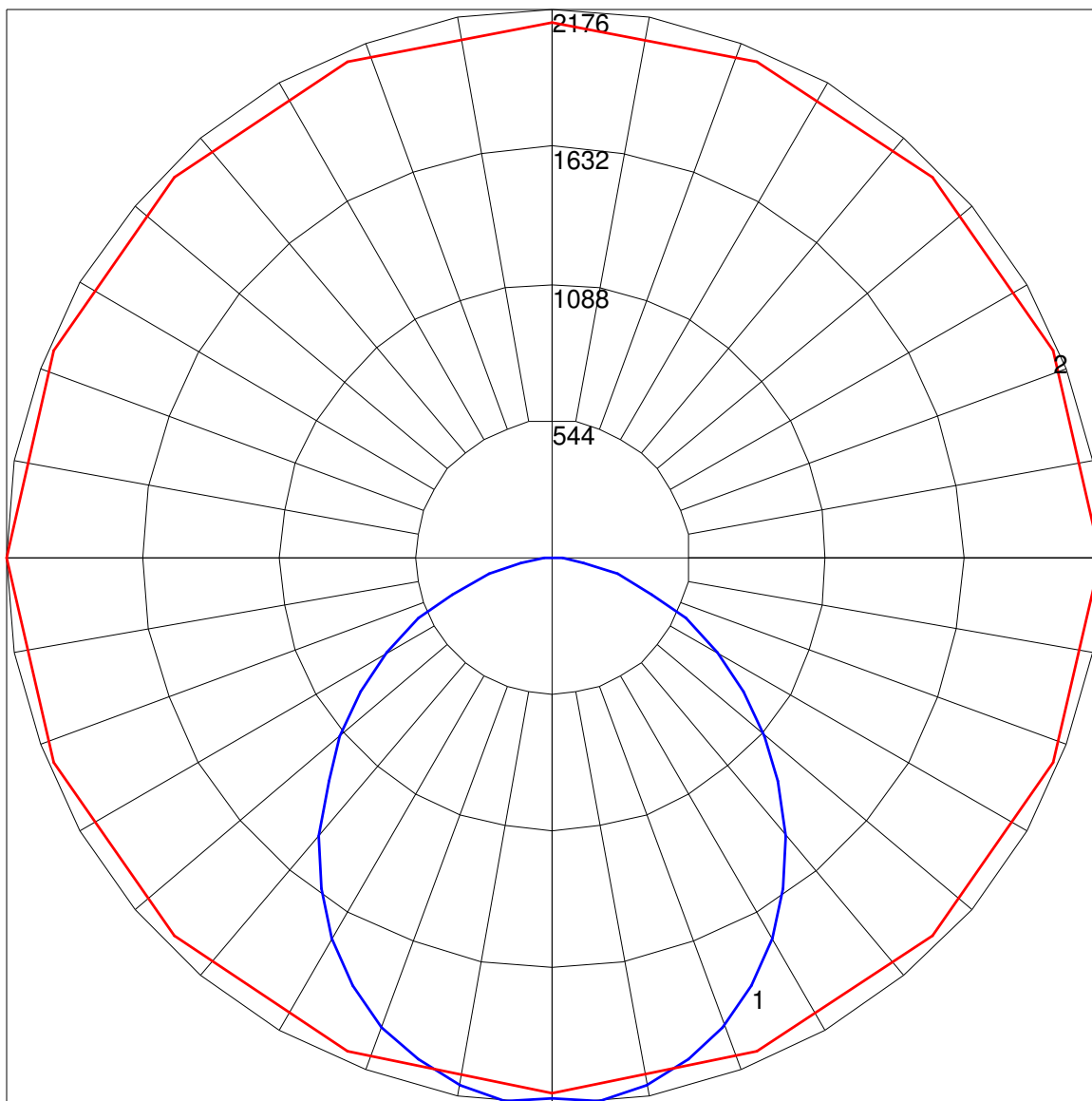
Reflectances

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	14.6	16.3	15.0	16.6	16.9	16.3	18.0	16.7	18.3	18.6
	3H	16.2	17.7	16.6	18.0	18.4	18.7	20.2	19.1	20.5	20.9
	4H	16.7	18.1	17.1	18.5	18.9	19.7	21.2	20.1	21.5	21.9
	6H	17.0	18.4	17.4	18.7	19.1	20.6	21.9	21.0	22.3	22.7
	8H	17.1	18.4	17.5	18.8	19.2	20.8	22.1	21.2	22.5	22.9
	12H	17.1	18.4	17.6	18.7	19.2	20.9	22.2	21.4	22.5	23.0
4H	2H	15.6	17.0	16.0	17.3	17.7	16.9	18.3	17.3	18.7	19.0
	3H	17.4	18.6	17.8	19.0	19.4	19.5	20.7	19.9	21.1	21.5
	4H	18.1	19.2	18.5	19.6	20.1	20.8	21.9	21.2	22.3	22.7
	6H	18.6	19.5	19.0	20.0	20.4	21.8	22.8	22.3	23.2	23.6
	8H	18.7	19.6	19.2	20.0	20.5	22.1	23.0	22.6	23.4	23.9
	12H	18.8	19.6	19.2	20.0	20.5	22.3	23.1	22.7	23.5	24.0
8H	4H	18.9	19.8	19.3	20.2	20.7	21.1	22.0	21.6	22.4	22.9
	6H	19.5	20.3	20.0	20.8	21.2	22.3	23.0	22.8	23.5	24.0
	8H	19.8	20.4	20.3	20.9	21.4	22.7	23.4	23.2	23.9	24.4
	12H	19.9	20.5	20.4	21.0	21.5	22.9	23.5	23.4	24.0	24.6
12H	4H	19.0	19.8	19.5	20.3	20.8	21.1	21.9	21.6	22.4	22.9
	6H	19.8	20.5	20.3	20.9	21.5	22.4	23.0	22.9	23.5	24.0
	8H	20.1	20.7	20.6	21.2	21.7	22.8	23.4	23.3	23.9	24.5

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 2175.833 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.)