



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-24-L64-850-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-L64-850-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	6780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	2801	3113	3349
55	2548	3020	3377
65	2176	3002	3535
75	1604	3152	3955
85	614	2531	2326

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LT-24-L64-850-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	2355.134	2355.134	2355.134	2355.134	2355.134
5	2377.714	2349.489	2334.811	2329.166	2329.166
10	2333.682	2304.328	2296.425	2297.554	2294.167
15	2263.683	2243.361	2239.974	2247.877	2252.393
20	2172.233	2154.168	2162.071	2183.523	2188.039
25	2052.557	2036.750	2064.976	2095.459	2102.233
30	1914.816	1911.429	1949.816	1990.461	2006.267
35	1753.367	1766.915	1823.366	1875.301	1894.494
40	1582.885	1607.723	1694.658	1754.496	1777.076
45	1378.532	1421.435	1532.079	1631.432	1648.368
50	1208.050	1261.114	1369.500	1466.596	1494.821
55	1017.246	1070.310	1205.792	1309.662	1348.049
60	829.829	888.538	1033.052	1158.374	1194.502
65	640.154	721.443	882.893	1004.827	1039.827
70	462.898	554.348	721.443	851.280	879.506
75	289.029	400.802	567.897	684.186	712.411
80	138.869	259.674	412.092	466.285	450.479
85	37.258	128.708	153.547	136.611	141.127
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-24-L64-850-AF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	856.28	N.A.	12.60
0-30	1809.78	N.A.	26.70
0-40	2950.79	N.A.	43.50
0-60	5195.65	N.A.	76.60
0-80	6612.93	N.A.	97.50
0-90	6779.55	N.A.	100.00
10-90	6557.24	N.A.	96.70
20-40	2094.51	N.A.	30.90
20-50	3271.96	N.A.	48.30
40-70	3098.65	N.A.	45.70
60-80	1417.28	N.A.	20.90
70-80	563.49	N.A.	8.30
80-90	166.62	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	6779.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.31
10-20	633.97
20-30	953.50
30-40	1141.01
40-50	1177.45
50-60	1067.4
60-70	853.80
70-80	563.49
80-90	166.62
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-L64-850-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-L64-850-AF-DIM-UNV_.IES

UGR TABLE - CORRECTED

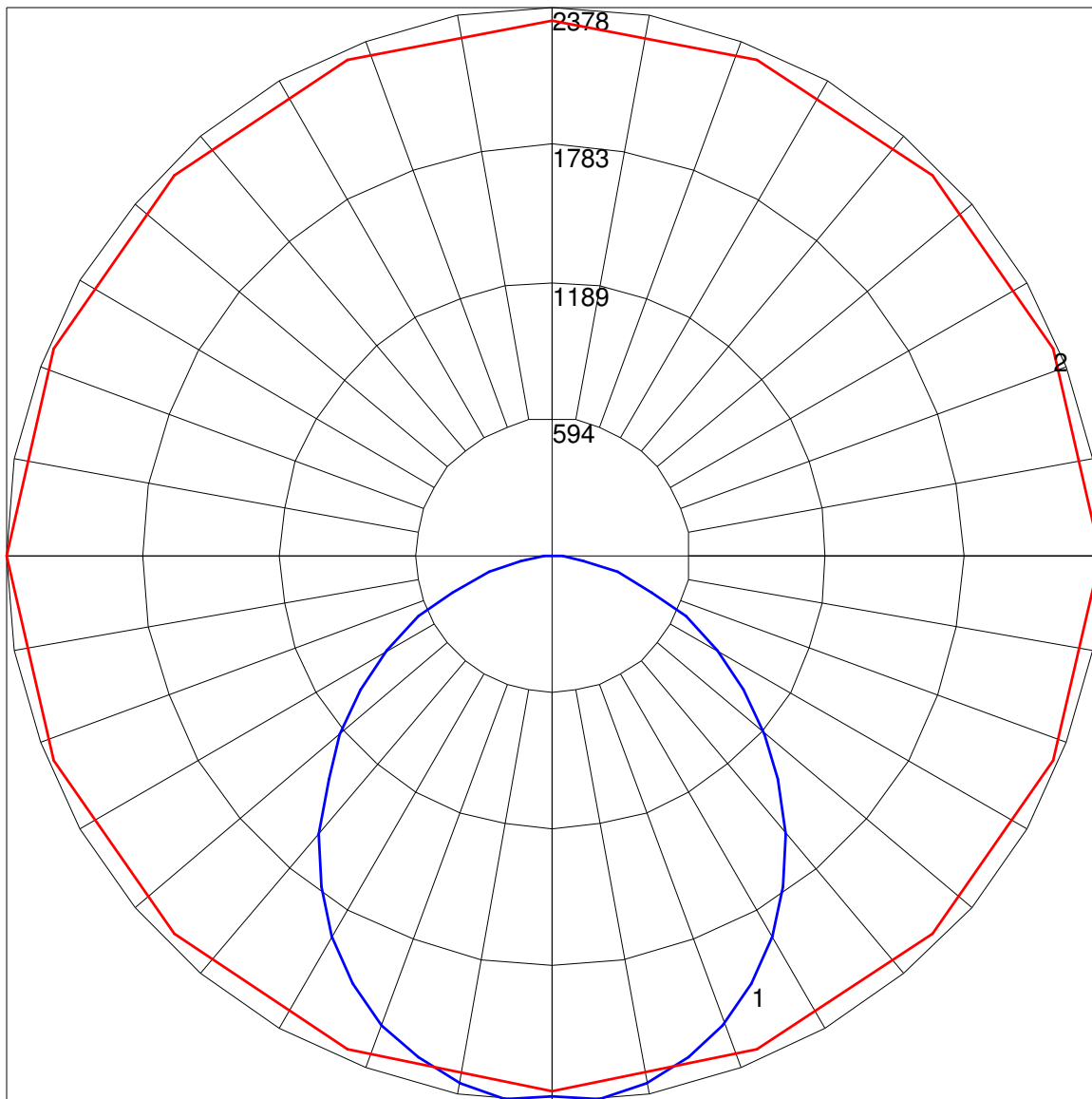
Reflectances

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	14.9	16.6	15.3	16.9	17.2	16.6	18.3	17.0	18.6	18.9
	3H	16.5	18.0	16.9	18.3	18.7	19.0	20.5	19.4	20.8	21.2
	4H	17.0	18.4	17.4	18.8	19.2	20.0	21.5	20.4	21.8	22.2
	6H	17.3	18.7	17.7	19.0	19.4	20.9	22.2	21.3	22.6	23.0
	8H	17.4	18.7	17.8	19.1	19.5	21.1	22.4	21.5	22.8	23.2
	12H	17.4	18.7	17.9	19.0	19.5	21.2	22.5	21.7	22.8	23.3
4H	2H	15.9	17.3	16.3	17.6	18.0	17.2	18.6	17.6	19.0	19.3
	3H	17.7	18.9	18.1	19.3	19.7	19.8	21.0	20.2	21.4	21.8
	4H	18.4	19.5	18.8	19.9	20.4	21.1	22.2	21.5	22.6	23.0
	6H	18.9	19.8	19.3	20.3	20.7	22.1	23.1	22.6	23.5	23.9
	8H	19.0	19.9	19.5	20.3	20.8	22.4	23.3	22.9	23.7	24.2
	12H	19.1	19.9	19.5	20.3	20.8	22.6	23.4	23.0	23.8	24.3
8H	4H	19.2	20.1	19.6	20.5	21.0	21.4	22.3	21.9	22.7	23.2
	6H	19.8	20.6	20.3	21.1	21.5	22.6	23.3	23.1	23.8	24.3
	8H	20.1	20.7	20.6	21.2	21.7	23.0	23.7	23.5	24.2	24.7
	12H	20.2	20.8	20.7	21.3	21.8	23.2	23.8	23.7	24.3	24.9
12H	4H	19.3	20.1	19.8	20.6	21.1	21.4	22.2	21.9	22.7	23.2
	6H	20.1	20.8	20.6	21.2	21.8	22.7	23.3	23.2	23.8	24.3
	8H	20.4	21.0	20.9	21.5	22.0	23.1	23.7	23.6	24.2	24.8

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 2377.714 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.)