



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-835-AF-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20224.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2023-07-21
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1x4'RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER LENS
 [MORE] 0-10V DIMMING DRIVER
 [LUMCAT] LT-14-L47-835-AF-DIM-UNV_
 [LAMPCAT] 22 INCH LED ARRAYS
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	33.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4441	4580	4838
55	4082	4473	4840
65	3556	4372	4631
75	2687	3900	4095
85	1158	1898	1609

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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	1626.742	1626.742	1626.742	1626.742	1626.742
5	1652.028	1621.123	1612.694	1608.012	1604.265
10	1623.932	1595.837	1591.154	1588.345	1583.662
15	1585.535	1562.122	1557.439	1562.122	1555.566
20	1522.788	1503.121	1503.121	1511.550	1511.550
25	1450.676	1435.691	1443.183	1457.231	1458.168
30	1369.198	1354.214	1370.134	1392.611	1392.611
35	1277.419	1266.180	1283.038	1316.753	1319.562
40	1169.718	1167.845	1186.576	1227.783	1237.148
45	1048.907	1050.780	1081.685	1131.321	1142.559
50	918.730	929.032	972.112	1021.748	1039.542
55	781.997	808.220	856.919	903.746	927.159
60	646.202	686.472	741.727	780.124	801.664
65	501.977	547.866	617.169	643.392	653.694
70	370.863	426.118	484.183	498.231	512.279
75	232.258	303.434	337.149	334.339	354.006
80	120.812	174.193	191.987	178.876	191.987
85	33.715	59.938	55.255	46.826	46.826
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	594.18	N.A.	12.70
0-30	1261.39	N.A.	27.00
0-40	2068.94	N.A.	44.20
0-60	3675.08	N.A.	78.60
0-80	4601.99	N.A.	98.40
0-90	4677.23	N.A.	100.00
10-90	4523.53	N.A.	96.70
20-40	1474.76	N.A.	31.50
20-50	2315.42	N.A.	49.50
40-70	2197.55	N.A.	47.00
60-80	926.91	N.A.	19.80
70-80	335.51	N.A.	7.20
80-90	75.24	N.A.	1.60
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	4677.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.70
10-20	440.48
20-30	667.21
30-40	807.55
40-50	840.67
50-60	765.48
60-70	591.40
70-80	335.51
80-90	75.24
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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UGR TABLE - CORRECTED

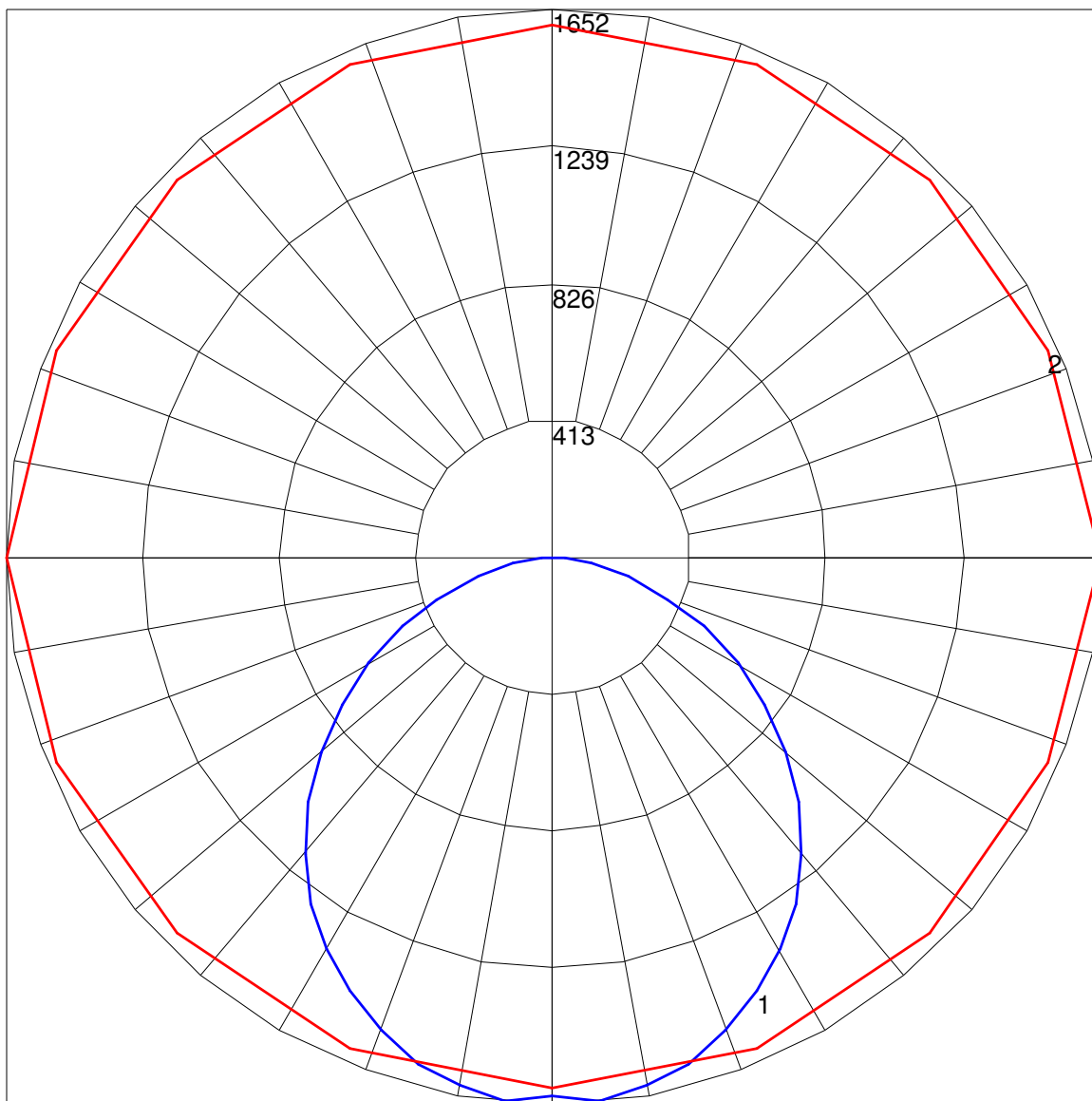
Reflectances

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	17.0	18.6	17.3	18.9	19.3	17.9	19.6	18.3	19.9	20.2
	3H	18.6	20.1	19.0	20.5	20.8	19.8	21.3	20.2	21.7	22.0
	4H	19.2	20.6	19.6	20.9	21.3	20.5	21.9	20.9	22.3	22.7
	6H	19.5	20.8	19.9	21.2	21.6	21.0	22.3	21.4	22.7	23.0
	8H	19.6	20.8	20.0	21.2	21.6	21.1	22.3	21.5	22.7	23.1
	12H	19.6	20.8	20.1	21.2	21.6	21.1	22.3	21.6	22.7	23.1
4H	2H	17.8	19.2	18.2	19.6	19.9	18.5	19.9	18.9	20.3	20.6
	3H	19.7	20.9	20.1	21.3	21.7	20.7	21.8	21.1	22.2	22.6
	4H	20.4	21.5	20.9	21.9	22.3	21.5	22.5	21.9	23.0	23.4
	6H	20.9	21.8	21.3	22.2	22.7	22.0	23.0	22.5	23.4	23.9
	8H	21.0	21.9	21.4	22.3	22.8	22.2	23.0	22.6	23.5	24.0
	12H	21.0	21.8	21.5	22.3	22.8	22.2	23.0	22.7	23.5	24.0
8H	4H	20.8	21.7	21.3	22.1	22.6	21.8	22.6	22.2	23.1	23.5
	6H	21.4	22.2	21.9	22.6	23.1	22.4	23.1	22.9	23.6	24.1
	8H	21.6	22.3	22.1	22.8	23.3	22.6	23.3	23.1	23.8	24.2
	12H	21.7	22.3	22.2	22.8	23.3	22.7	23.3	23.2	23.8	24.3
12H	4H	20.9	21.7	21.3	22.1	22.6	21.8	22.6	22.3	23.0	23.5
	6H	21.5	22.2	22.0	22.6	23.2	22.5	23.1	23.0	23.6	24.1
	8H	21.7	22.3	22.2	22.8	23.4	22.7	23.3	23.2	23.7	24.3

Maximum UGR = 24.3

POLAR GRAPH



Maximum Candela = 1652.028 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.)