



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-850-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-L47-850-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	4958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	4708	4855	5128
55	4327	4741	5130
65	3769	4634	4909
75	2848	4134	4341
85	1228	2012	1705

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LT-14-L47-850-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	1724.346	1724.346	1724.346	1724.346	1724.346
5	1751.150	1718.390	1709.456	1704.492	1700.521
10	1721.368	1691.587	1686.623	1683.645	1678.681
15	1680.667	1655.849	1650.885	1655.849	1648.900
20	1614.155	1593.308	1593.308	1602.242	1602.242
25	1537.716	1521.832	1529.774	1544.665	1545.658
30	1451.350	1435.466	1452.342	1476.167	1476.167
35	1354.064	1342.151	1360.020	1395.758	1398.736
40	1239.901	1237.916	1257.770	1301.450	1311.377
45	1111.841	1113.826	1146.586	1199.200	1211.113
50	973.854	984.773	1030.438	1083.052	1101.914
55	828.917	856.713	908.334	957.970	982.788
60	684.973	727.660	786.230	826.932	849.764
65	532.095	580.738	654.199	681.995	692.915
70	393.115	451.685	513.234	528.124	543.015
75	246.193	321.640	357.377	354.399	375.246
80	128.060	184.645	203.507	189.609	203.507
85	35.738	63.534	58.570	49.636	49.636
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-850-AF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	629.83	N.A.	12.70
0-30	1337.07	N.A.	27.00
0-40	2193.07	N.A.	44.20
0-60	3895.58	N.A.	78.60
0-80	4878.11	N.A.	98.40
0-90	4957.86	N.A.	100.00
10-90	4794.94	N.A.	96.70
20-40	1563.24	N.A.	31.50
20-50	2454.35	N.A.	49.50
40-70	2329.4	N.A.	47.00
60-80	982.52	N.A.	19.80
70-80	355.64	N.A.	7.20
80-90	79.75	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	4957.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.92
10-20	466.91
20-30	707.24
30-40	856.00
40-50	891.11
50-60	811.41
60-70	626.89
70-80	355.64
80-90	79.75
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-14-L47-850-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	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	53	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-850-AF-DIM-UNV_.IES

UGR TABLE - CORRECTED

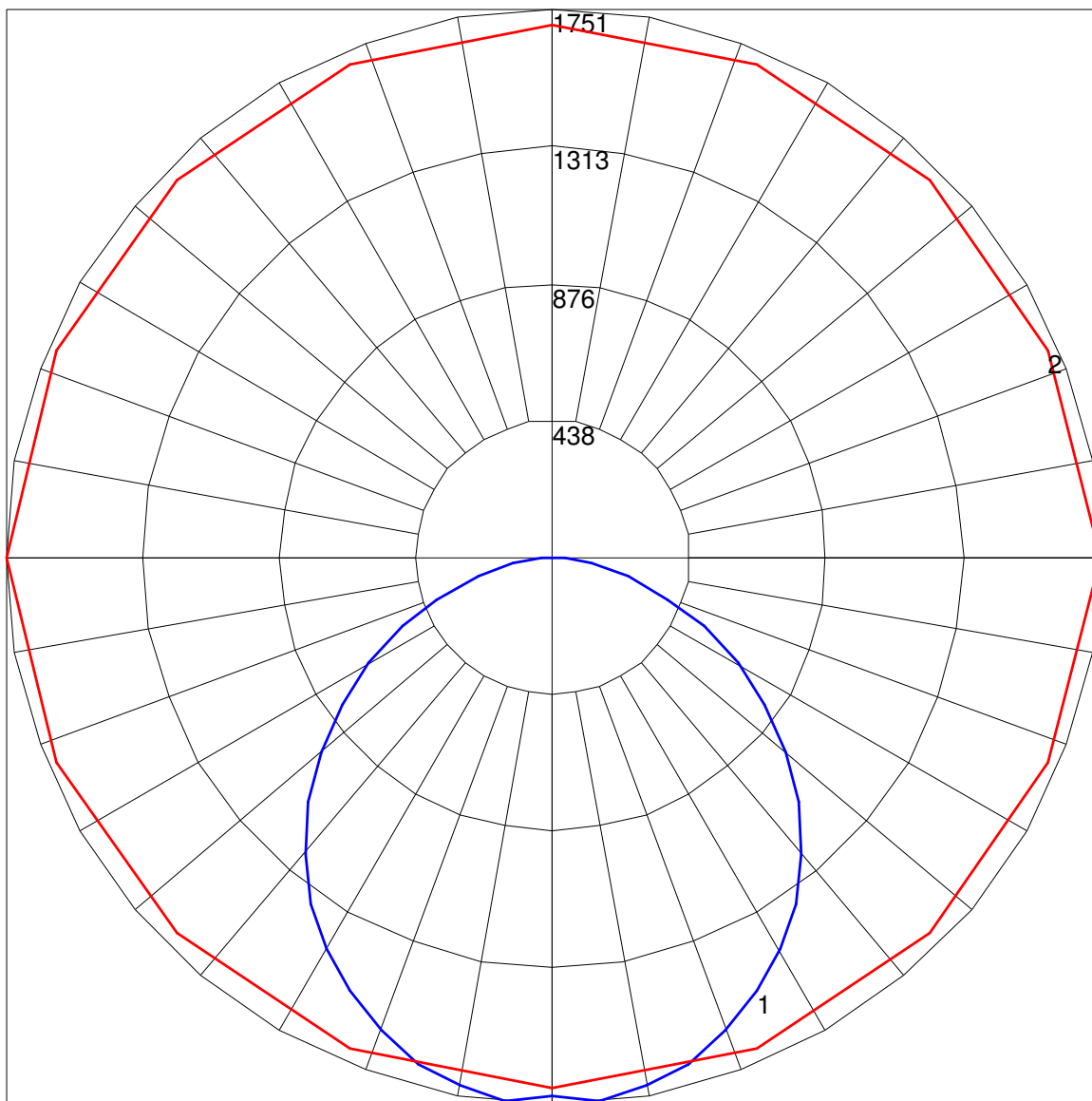
Reflectances

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	17.2	18.8	17.5	19.1	19.5	18.1	19.8	18.5	20.1	20.4
	3H	18.8	20.3	19.2	20.7	21.0	20.0	21.5	20.4	21.9	22.2
	4H	19.4	20.8	19.8	21.1	21.5	20.7	22.1	21.1	22.5	22.9
	6H	19.7	21.0	20.1	21.4	21.8	21.2	22.5	21.6	22.9	23.2
	8H	19.8	21.0	20.2	21.4	21.8	21.3	22.5	21.7	22.9	23.3
	12H	19.8	21.0	20.3	21.4	21.8	21.3	22.5	21.8	22.9	23.3
4H	2H	18.0	19.4	18.4	19.8	20.1	18.7	20.1	19.1	20.5	20.8
	3H	19.9	21.1	20.3	21.5	21.9	20.9	22.0	21.3	22.4	22.8
	4H	20.6	21.7	21.1	22.1	22.5	21.7	22.7	22.1	23.2	23.6
	6H	21.1	22.0	21.5	22.4	22.9	22.2	23.2	22.7	23.6	24.1
	8H	21.2	22.1	21.6	22.5	23.0	22.4	23.2	22.8	23.7	24.2
	12H	21.2	22.0	21.7	22.5	23.0	22.4	23.2	22.9	23.7	24.2
8H	4H	21.0	21.9	21.5	22.3	22.8	22.0	22.8	22.4	23.3	23.7
	6H	21.6	22.4	22.1	22.8	23.3	22.6	23.3	23.1	23.8	24.3
	8H	21.8	22.5	22.3	23.0	23.5	22.8	23.5	23.3	24.0	24.4
	12H	21.9	22.5	22.4	23.0	23.5	22.9	23.5	23.4	24.0	24.5
12H	4H	21.1	21.9	21.5	22.3	22.8	22.0	22.8	22.5	23.2	23.7
	6H	21.7	22.4	22.2	22.8	23.4	22.7	23.3	23.2	23.8	24.3
	8H	21.9	22.5	22.4	23.0	23.6	22.9	23.5	23.4	23.9	24.5

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 1751.15 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.)