



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-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] 10-31-2023
[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-L47-940-AF-(L45)-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	3710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	31.7
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	3523	3633	3837
55	3238	3548	3839
65	2821	3468	3673
75	2131	3094	3248
85	919	1506	1276

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-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	1290.403	1290.403	1290.403	1290.403	1290.403
5	1310.461	1285.945	1279.259	1275.545	1272.573
10	1288.174	1265.887	1262.173	1259.944	1256.230
15	1257.715	1239.143	1235.429	1239.143	1233.943
20	1207.942	1192.341	1192.341	1199.027	1199.027
25	1150.739	1138.853	1144.796	1155.939	1156.682
30	1086.107	1074.221	1086.850	1104.680	1104.680
35	1013.304	1004.389	1017.761	1044.505	1046.734
40	927.871	926.386	941.244	973.931	981.360
45	832.038	833.524	858.040	897.413	906.328
50	728.777	736.948	771.121	810.495	824.610
55	620.314	641.115	679.746	716.890	735.463
60	512.595	544.539	588.370	618.829	635.915
65	398.190	434.592	489.565	510.366	518.538
70	294.185	338.016	384.075	395.218	406.362
75	184.237	240.697	267.441	265.212	280.813
80	95.833	138.178	152.293	141.892	152.293
85	26.744	47.545	43.831	37.145	37.145
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	471.33	N.A.	12.70
0-30	1000.59	N.A.	27.00
0-40	1641.17	N.A.	44.20
0-60	2915.23	N.A.	78.60
0-80	3650.5	N.A.	98.40
0-90	3710.18	N.A.	100.00
10-90	3588.26	N.A.	96.70
20-40	1169.84	N.A.	31.50
20-50	1836.7	N.A.	49.50
40-70	1743.19	N.A.	47.00
60-80	735.27	N.A.	19.80
70-80	266.14	N.A.	7.20
80-90	59.68	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	3710.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.92
10-20	349.41
20-30	529.26
30-40	640.58
40-50	666.85
50-60	607.21
60-70	469.13
70-80	266.14
80-90	59.68
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-L47-940-AF-(L45)-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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L47-940-AF-(L45)-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

X=2H	Y=2H	16.2	17.8	16.5	18.1	18.5	17.1	18.8	17.5	19.1	19.4
	3H	17.8	19.3	18.2	19.7	20.0	19.0	20.5	19.4	20.9	21.2
	4H	18.4	19.8	18.8	20.1	20.5	19.7	21.1	20.1	21.5	21.9
	6H	18.7	20.0	19.1	20.4	20.8	20.2	21.5	20.6	21.9	22.2
	8H	18.8	20.0	19.2	20.4	20.8	20.3	21.5	20.7	21.9	22.3
	12H	18.8	20.0	19.3	20.4	20.8	20.3	21.5	20.8	21.9	22.3

UGR Viewed Endwise

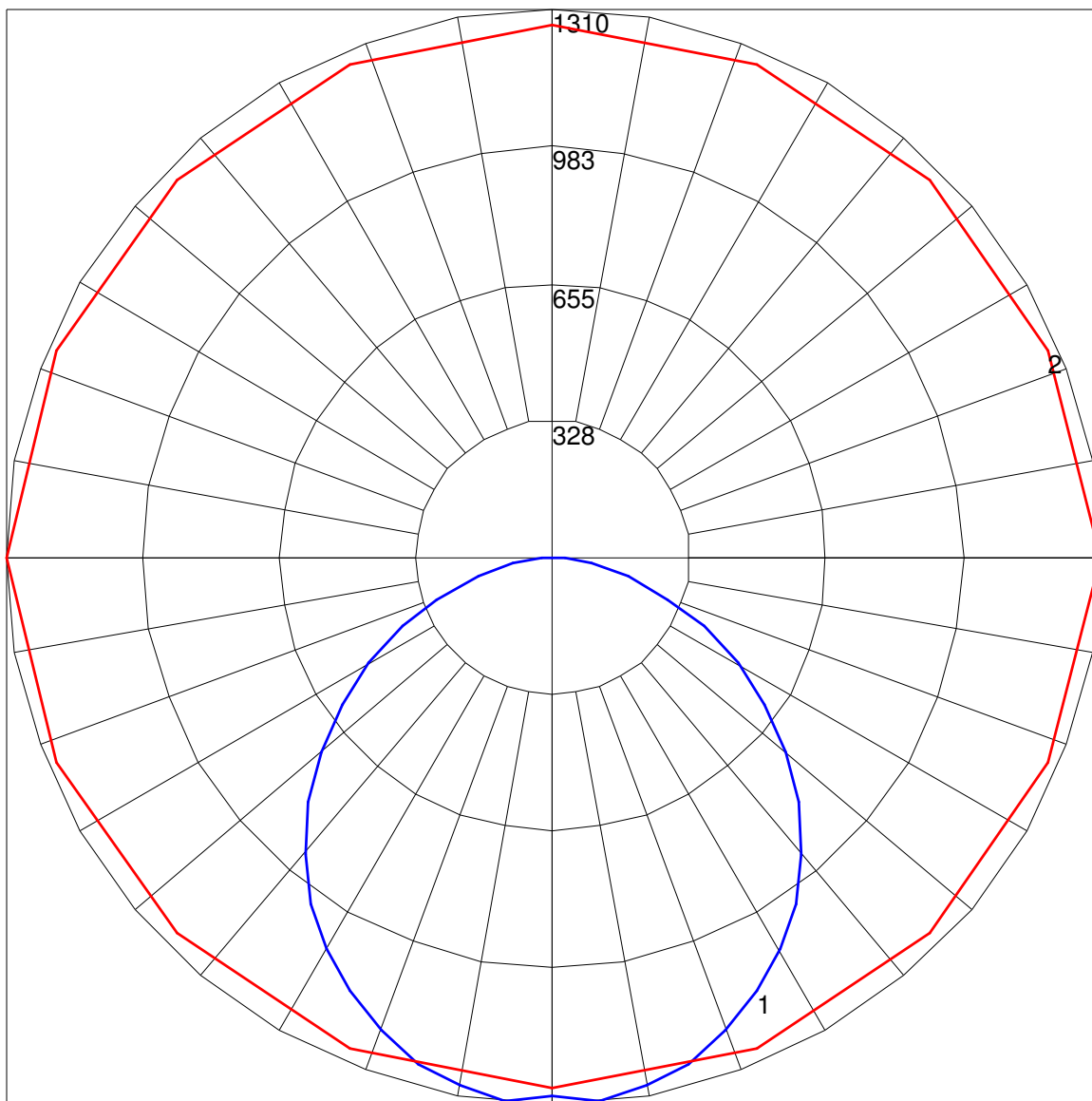
4H	2H	17.0	18.4	17.4	18.8	19.1	17.7	19.1	18.1	19.5	19.8
	3H	18.9	20.1	19.3	20.5	20.9	19.9	21.0	20.3	21.4	21.8
	4H	19.6	20.7	20.1	21.1	21.5	20.7	21.7	21.1	22.2	22.6
	6H	20.1	21.0	20.5	21.4	21.9	21.2	22.2	21.7	22.6	23.1
	8H	20.2	21.1	20.6	21.5	22.0	21.4	22.2	21.8	22.7	23.2
	12H	20.2	21.0	20.7	21.5	22.0	21.4	22.2	21.9	22.7	23.2

8H	4H	20.0	20.9	20.5	21.3	21.8	21.0	21.8	21.4	22.3	22.7
	6H	20.6	21.4	21.1	21.8	22.3	21.6	22.3	22.1	22.8	23.3
	8H	20.8	21.5	21.3	22.0	22.5	21.8	22.5	22.3	23.0	23.4
	12H	20.9	21.5	21.4	22.0	22.5	21.9	22.5	22.4	23.0	23.5

12H	4H	20.1	20.9	20.5	21.3	21.8	21.0	21.8	21.5	22.2	22.7
	6H	20.7	21.4	21.2	21.8	22.4	21.7	22.3	22.2	22.8	23.3
	8H	20.9	21.5	21.4	22.0	22.6	21.9	22.5	22.4	22.9	23.5

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1310.461 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.)