



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L63-840-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-L63-840-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	6449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	48.5
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	6124	6315	6670
55	5628	6167	6673
65	4903	6029	6385
75	3704	5377	5646
85	1597	2617	2218

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : LT-14-L63-840-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>
<b>0</b>	2243.016	2243.016	2243.016	2243.016	2243.016
<b>5</b>	2277.881	2235.268	2223.646	2217.190	2212.024
<b>10</b>	2239.142	2200.403	2193.946	2190.072	2183.615
<b>15</b>	2186.198	2153.915	2147.459	2153.915	2144.876
<b>20</b>	2099.680	2072.562	2072.562	2084.184	2084.184
<b>25</b>	2000.249	1979.587	1989.918	2009.288	2010.579
<b>30</b>	1887.904	1867.243	1889.195	1920.187	1920.187
<b>35</b>	1761.355	1745.859	1769.103	1815.590	1819.464
<b>40</b>	1612.854	1610.271	1636.097	1692.915	1705.828
<b>45</b>	1446.274	1448.857	1491.470	1559.910	1575.406
<b>50</b>	1266.781	1280.986	1340.386	1408.826	1433.361
<b>55</b>	1078.249	1114.406	1181.554	1246.120	1278.403
<b>60</b>	891.008	946.535	1022.722	1075.666	1105.367
<b>65</b>	692.145	755.420	850.977	887.134	901.339
<b>70</b>	511.361	587.549	667.610	686.980	706.350
<b>75</b>	320.246	418.386	464.874	461.000	488.117
<b>80</b>	166.580	240.185	264.720	246.641	264.720
<b>85</b>	46.487	82.644	76.188	64.566	64.566
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L63-840-AF-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	819.28	N.A.	12.70
0-30	1739.25	N.A.	27.00
0-40	2852.73	N.A.	44.20
0-60	5067.34	N.A.	78.60
0-80	6345.4	N.A.	98.40
0-90	6449.15	N.A.	100.00
10-90	6237.22	N.A.	96.70
20-40	2033.45	N.A.	31.50
20-50	3192.6	N.A.	49.50
40-70	3030.07	N.A.	47.00
60-80	1278.06	N.A.	19.80
70-80	462.61	N.A.	7.20
80-90	103.74	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	6449.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	211.92
10-20	607.35
20-30	919.97
30-40	1113.48
40-50	1159.14
50-60	1055.47
60-70	815.45
70-80	462.61
80-90	103.74
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-L63-840-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	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-L63-840-AF-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

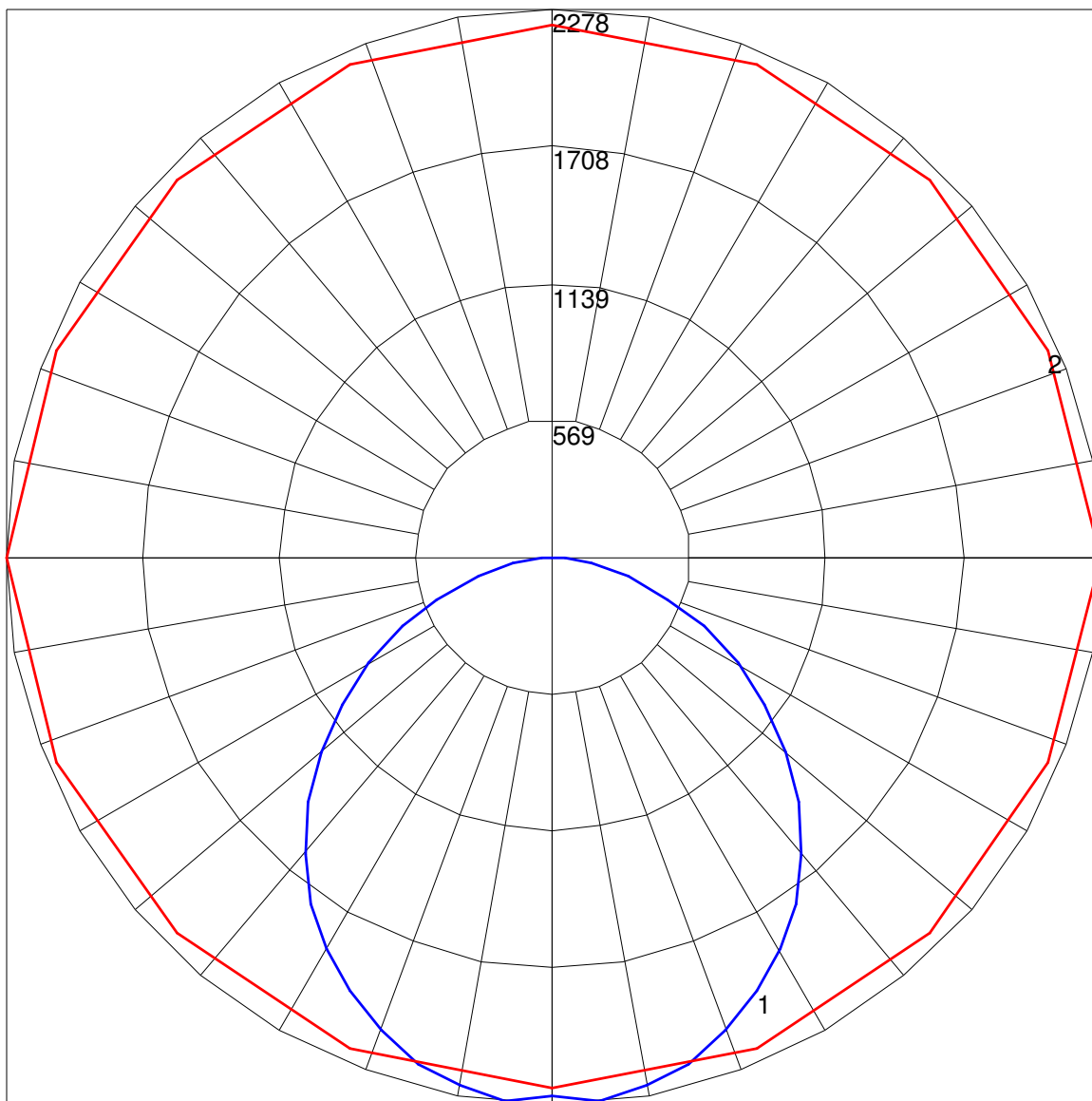
Reflectances

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	18.1	19.7	18.4	20.0	20.4	19.0	20.7	19.4	21.0	21.3
	3H	19.7	21.2	20.1	21.6	21.9	20.9	22.4	21.3	22.8	23.1
	4H	20.3	21.7	20.7	22.0	22.4	21.6	23.0	22.0	23.4	23.8
	6H	20.6	21.9	21.0	22.3	22.7	22.1	23.4	22.5	23.8	24.1
	8H	20.7	21.9	21.1	22.3	22.7	22.2	23.4	22.6	23.8	24.2
	12H	20.7	21.9	21.2	22.3	22.7	22.2	23.4	22.7	23.8	24.2
4H	2H	18.9	20.3	19.3	20.7	21.0	19.6	21.0	20.0	21.4	21.7
	3H	20.8	22.0	21.2	22.4	22.8	21.8	22.9	22.2	23.3	23.7
	4H	21.5	22.6	22.0	23.0	23.4	22.6	23.6	23.0	24.1	24.5
	6H	22.0	22.9	22.4	23.3	23.8	23.1	24.1	23.6	24.5	25.0
	8H	22.1	23.0	22.5	23.4	23.9	23.3	24.1	23.7	24.6	25.1
	12H	22.1	22.9	22.6	23.4	23.9	23.3	24.1	23.8	24.6	25.1
8H	4H	21.9	22.8	22.4	23.2	23.7	22.9	23.7	23.3	24.2	24.6
	6H	22.5	23.3	23.0	23.7	24.2	23.5	24.2	24.0	24.7	25.2
	8H	22.7	23.4	23.2	23.9	24.4	23.7	24.4	24.2	24.9	25.3
	12H	22.8	23.4	23.3	23.9	24.4	23.8	24.4	24.3	24.9	25.4
12H	4H	22.0	22.8	22.4	23.2	23.7	22.9	23.7	23.4	24.1	24.6
	6H	22.6	23.3	23.1	23.7	24.3	23.6	24.2	24.1	24.7	25.2
	8H	22.8	23.4	23.3	23.9	24.5	23.8	24.4	24.3	24.8	25.4

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 2277.881 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.)