



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LT-14-L63-850-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-L63-850-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	6637
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	6302	6499	6865
55	5792	6347	6867
65	5046	6204	6571
75	3812	5534	5811
85	1643	2693	2283

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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>
<b>0</b>	2308.346	2308.346	2308.346	2308.346	2308.346
<b>5</b>	2344.227	2300.373	2288.412	2281.768	2276.452
<b>10</b>	2304.359	2264.492	2257.847	2253.860	2247.216
<b>15</b>	2249.873	2216.650	2210.006	2216.650	2207.348
<b>20</b>	2160.835	2132.928	2132.928	2144.888	2144.888
<b>25</b>	2058.508	2037.245	2047.877	2067.810	2069.139
<b>30</b>	1942.891	1921.628	1944.220	1976.115	1976.115
<b>35</b>	1812.656	1796.709	1820.630	1868.471	1872.458
<b>40</b>	1659.830	1657.172	1683.751	1742.223	1755.513
<b>45</b>	1488.398	1491.056	1534.911	1605.344	1621.291
<b>50</b>	1303.677	1318.296	1379.426	1449.859	1475.109
<b>55</b>	1109.654	1146.864	1215.968	1282.415	1315.638
<b>60</b>	916.960	974.104	1052.510	1106.996	1137.562
<b>65</b>	712.305	777.422	875.763	912.973	927.591
<b>70</b>	526.255	604.662	687.055	706.989	726.923
<b>75</b>	329.574	430.572	478.414	474.427	502.334
<b>80</b>	171.432	247.180	272.430	253.825	272.430
<b>85</b>	47.841	85.051	78.407	66.446	66.446
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	843.14	N.A.	12.70
0-30	1789.9	N.A.	27.00
0-40	2935.82	N.A.	44.20
0-60	5214.94	N.A.	78.60
0-80	6530.22	N.A.	98.40
0-90	6636.99	N.A.	100.00
10-90	6418.89	N.A.	96.70
20-40	2092.68	N.A.	31.50
20-50	3285.59	N.A.	49.50
40-70	3118.32	N.A.	47.00
60-80	1315.28	N.A.	19.80
70-80	476.08	N.A.	7.20
80-90	106.76	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	6636.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.10
10-20	625.04
20-30	946.77
30-40	1145.91
40-50	1192.91
50-60	1086.21
60-70	839.20
70-80	476.08
80-90	106.76
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	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

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**UGR TABLE - CORRECTED**

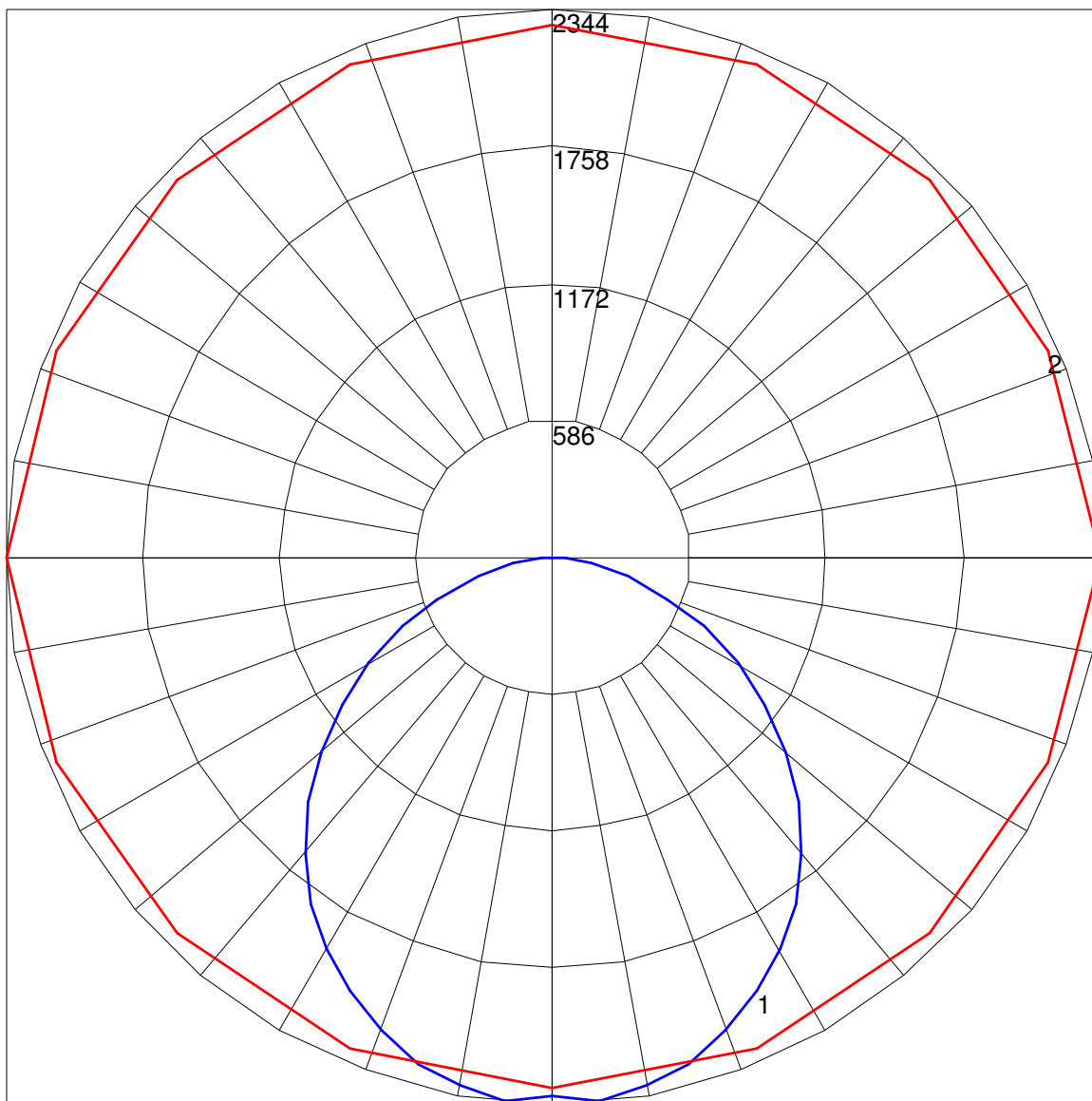
Reflectances

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	18.2	19.8	18.5	20.1	20.5	19.1	20.8	19.5	21.1	21.4
	3H	19.8	21.3	20.2	21.7	22.0	21.0	22.5	21.4	22.9	23.2
	4H	20.4	21.8	20.8	22.1	22.5	21.7	23.1	22.1	23.5	23.9
	6H	20.7	22.0	21.1	22.4	22.8	22.2	23.5	22.6	23.9	24.2
	8H	20.8	22.0	21.2	22.4	22.8	22.3	23.5	22.7	23.9	24.3
	12H	20.8	22.0	21.3	22.4	22.8	22.3	23.5	22.8	23.9	24.3
4H	2H	19.0	20.4	19.4	20.8	21.1	19.7	21.1	20.1	21.5	21.8
	3H	20.9	22.1	21.3	22.5	22.9	21.9	23.0	22.3	23.4	23.8
	4H	21.6	22.7	22.1	23.1	23.5	22.7	23.7	23.1	24.2	24.6
	6H	22.1	23.0	22.5	23.4	23.9	23.2	24.2	23.7	24.6	25.1
	8H	22.2	23.1	22.6	23.5	24.0	23.4	24.2	23.8	24.7	25.2
	12H	22.2	23.0	22.7	23.5	24.0	23.4	24.2	23.9	24.7	25.2
8H	4H	22.0	22.9	22.5	23.3	23.8	23.0	23.8	23.4	24.3	24.7
	6H	22.6	23.4	23.1	23.8	24.3	23.6	24.3	24.1	24.8	25.3
	8H	22.8	23.5	23.3	24.0	24.5	23.8	24.5	24.3	25.0	25.4
	12H	22.9	23.5	23.4	24.0	24.5	23.9	24.5	24.4	25.0	25.5
12H	4H	22.1	22.9	22.5	23.3	23.8	23.0	23.8	23.5	24.2	24.7
	6H	22.7	23.4	23.2	23.8	24.4	23.7	24.3	24.2	24.8	25.3
	8H	22.9	23.5	23.4	24.0	24.6	23.9	24.5	24.4	24.9	25.5

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 2344.227 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.)