



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L63-827-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-L63-827-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	6073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	5767	5947	6282
55	5300	5808	6284
65	4618	5677	6013
75	3489	5064	5317
85	1504	2465	2089

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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>	2112.353	2112.353	2112.353	2112.353	2112.353
<b>5</b>	2145.188	2105.057	2094.112	2088.032	2083.167
<b>10</b>	2108.705	2072.222	2066.142	2062.494	2056.413
<b>15</b>	2058.845	2028.443	2022.363	2028.443	2019.930
<b>20</b>	1977.367	1951.829	1951.829	1962.774	1962.774
<b>25</b>	1883.728	1864.270	1873.999	1892.241	1893.457
<b>30</b>	1777.928	1758.470	1779.144	1808.330	1808.330
<b>35</b>	1658.751	1644.158	1666.047	1709.827	1713.475
<b>40</b>	1518.900	1516.468	1540.790	1594.298	1606.459
<b>45</b>	1362.024	1364.456	1404.587	1469.040	1483.633
<b>50</b>	1192.987	1206.364	1262.304	1326.757	1349.863
<b>55</b>	1015.438	1049.488	1112.725	1173.530	1203.932
<b>60</b>	839.104	891.396	963.146	1013.005	1040.976
<b>65</b>	651.826	711.414	801.405	835.456	848.833
<b>70</b>	481.573	553.322	628.720	646.961	665.203
<b>75</b>	301.591	394.014	437.793	434.145	459.683
<b>80</b>	156.876	226.193	249.299	232.274	249.299
<b>85</b>	43.779	77.830	71.749	60.805	60.805
<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	771.55	N.A.	12.70
0-30	1637.93	N.A.	27.00
0-40	2686.55	N.A.	44.20
0-60	4772.16	N.A.	78.60
0-80	5975.77	N.A.	98.40
0-90	6073.46	N.A.	100.00
10-90	5873.89	N.A.	96.70
20-40	1915.00	N.A.	31.50
20-50	3006.62	N.A.	49.50
40-70	2853.56	N.A.	47.00
60-80	1203.61	N.A.	19.80
70-80	435.66	N.A.	7.20
80-90	97.70	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	6073.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	199.58
10-20	571.97
20-30	866.38
30-40	1048.62
40-50	1091.62
50-60	993.99
60-70	767.95
70-80	435.66
80-90	97.70
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

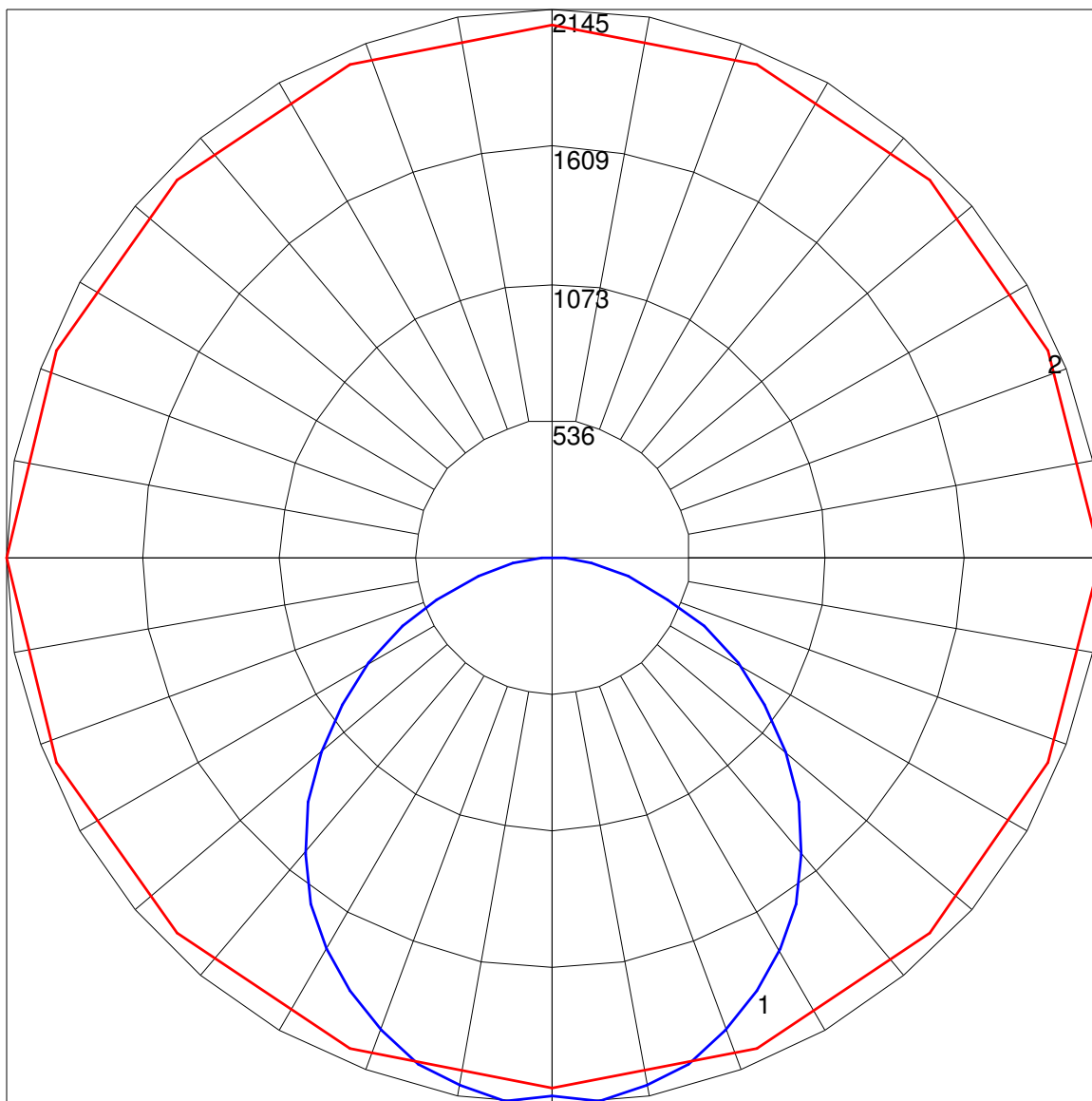
X=2H	Y=2H	17.9	19.5	18.2	19.8	20.2	18.8	20.5	19.2	20.8	21.1
	3H	19.5	21.0	19.9	21.4	21.7	20.7	22.2	21.1	22.6	22.9
	4H	20.1	21.5	20.5	21.8	22.2	21.4	22.8	21.8	23.2	23.6
	6H	20.4	21.7	20.8	22.1	22.5	21.9	23.2	22.3	23.6	23.9
	8H	20.5	21.7	20.9	22.1	22.5	22.0	23.2	22.4	23.6	24.0
	12H	20.5	21.7	21.0	22.1	22.5	22.0	23.2	22.5	23.6	24.0

UGR Viewed Endwise

4H	2H	18.7	20.1	19.1	20.5	20.8	19.4	20.8	19.8	21.2	21.5
	3H	20.6	21.8	21.0	22.2	22.6	21.6	22.7	22.0	23.1	23.5
	4H	21.3	22.4	21.8	22.8	23.2	22.4	23.4	22.8	23.9	24.3
	6H	21.8	22.7	22.2	23.1	23.6	22.9	23.9	23.4	24.3	24.8
	8H	21.9	22.8	22.3	23.2	23.7	23.1	23.9	23.5	24.4	24.9
	12H	21.9	22.7	22.4	23.2	23.7	23.1	23.9	23.6	24.4	24.9
8H	4H	21.7	22.6	22.2	23.0	23.5	22.7	23.5	23.1	24.0	24.4
	6H	22.3	23.1	22.8	23.5	24.0	23.3	24.0	23.8	24.5	25.0
	8H	22.5	23.2	23.0	23.7	24.2	23.5	24.2	24.0	24.7	25.1
	12H	22.6	23.2	23.1	23.7	24.2	23.6	24.2	24.1	24.7	25.2
12H	4H	21.8	22.6	22.2	23.0	23.5	22.7	23.5	23.2	23.9	24.4
	6H	22.4	23.1	22.9	23.5	24.1	23.4	24.0	23.9	24.5	25.0
	8H	22.6	23.2	23.1	23.7	24.3	23.6	24.2	24.1	24.6	25.2

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 2145.188 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.)