



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-950-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-L63-950-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	5573
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	5291	5457	5764
55	4863	5329	5766
65	4237	5209	5517
75	3201	4647	4879
85	1380	2261	1916

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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>
0	1938.139	1938.139	1938.139	1938.139	1938.139
5	1968.266	1931.445	1921.403	1915.824	1911.360
10	1934.792	1901.318	1895.739	1892.392	1886.813
15	1889.044	1861.149	1855.570	1861.149	1853.339
20	1814.286	1790.854	1790.854	1800.896	1800.896
25	1728.370	1710.517	1719.443	1736.180	1737.296
30	1631.295	1613.443	1632.411	1659.190	1659.190
35	1521.947	1508.558	1528.642	1568.811	1572.158
40	1393.631	1391.399	1413.715	1462.810	1473.968
45	1249.693	1251.924	1288.746	1347.883	1361.272
50	1094.597	1106.871	1158.197	1217.335	1238.535
55	931.691	962.933	1020.954	1076.744	1104.639
60	769.900	817.879	883.711	929.459	955.122
65	598.067	652.741	735.310	766.553	778.826
70	441.856	507.688	576.867	593.604	610.341
75	276.718	361.518	401.687	398.340	421.771
80	143.938	207.538	228.738	213.117	228.738
85	40.169	71.411	65.832	55.790	55.790
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	707.92	N.A.	12.70
0-30	1502.84	N.A.	27.00
0-40	2464.98	N.A.	44.20
0-60	4378.58	N.A.	78.60
0-80	5482.92	N.A.	98.40
0-90	5572.56	N.A.	100.00
10-90	5389.44	N.A.	96.70
20-40	1757.06	N.A.	31.50
20-50	2758.65	N.A.	49.50
40-70	2618.21	N.A.	47.00
60-80	1104.34	N.A.	19.80
70-80	399.73	N.A.	7.20
80-90	89.64	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	5572.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.12
10-20	524.80
20-30	794.93
30-40	962.13
40-50	1001.59
50-60	912.01
60-70	704.61
70-80	399.73
80-90	89.64
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	45	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

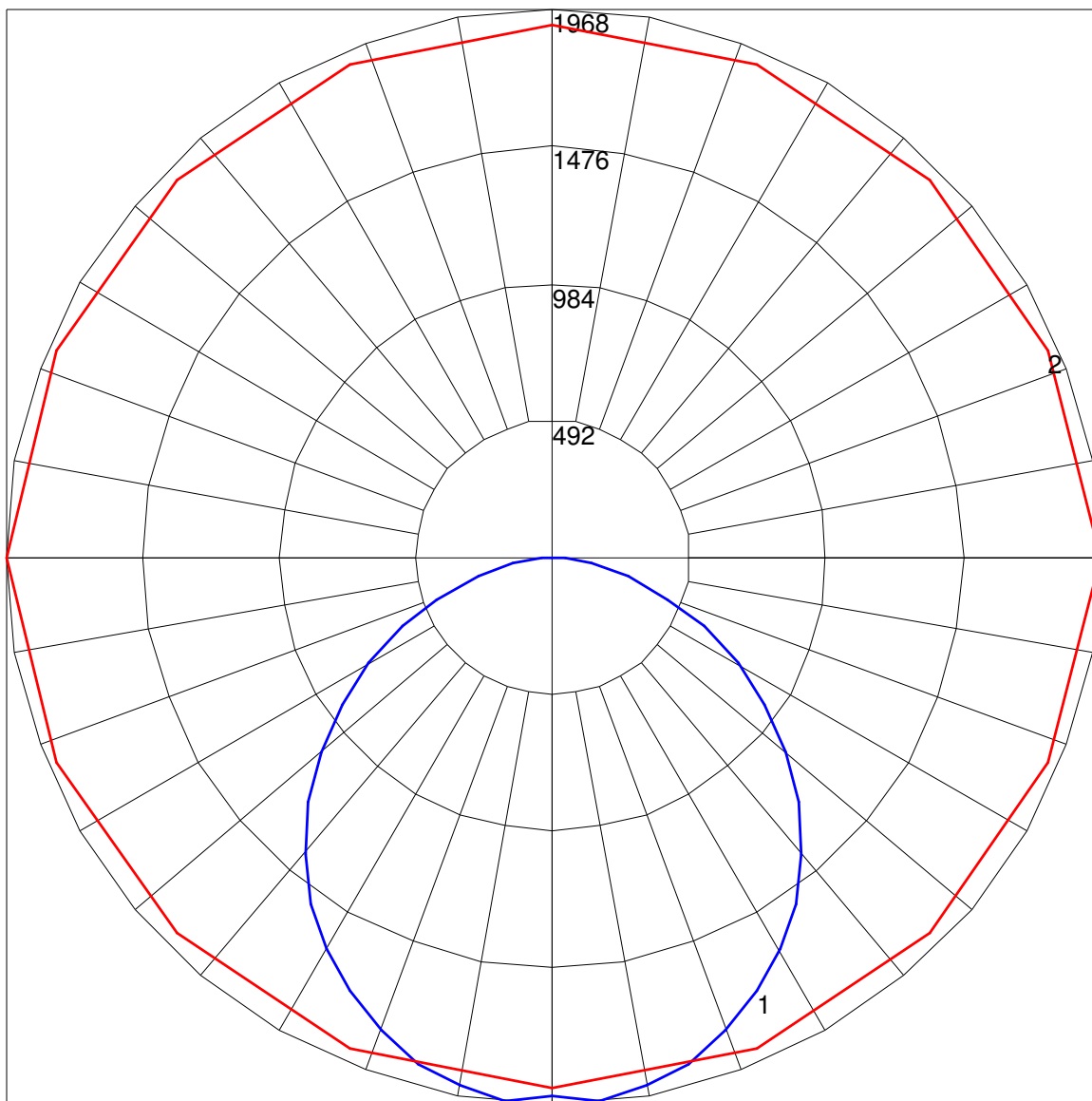
Reflectances

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	17.6	19.2	17.9	19.5	19.9	18.5	20.2	18.9	20.5	20.8
	3H	19.2	20.7	19.6	21.1	21.4	20.4	21.9	20.8	22.3	22.6
	4H	19.8	21.2	20.2	21.5	21.9	21.1	22.5	21.5	22.9	23.3
	6H	20.1	21.4	20.5	21.8	22.2	21.6	22.9	22.0	23.3	23.6
	8H	20.2	21.4	20.6	21.8	22.2	21.7	22.9	22.1	23.3	23.7
	12H	20.2	21.4	20.7	21.8	22.2	21.7	22.9	22.2	23.3	23.7
4H	2H	18.4	19.8	18.8	20.2	20.5	19.1	20.5	19.5	20.9	21.2
	3H	20.3	21.5	20.7	21.9	22.3	21.3	22.4	21.7	22.8	23.2
	4H	21.0	22.1	21.5	22.5	22.9	22.1	23.1	22.5	23.6	24.0
	6H	21.5	22.4	21.9	22.8	23.3	22.6	23.6	23.1	24.0	24.5
	8H	21.6	22.5	22.0	22.9	23.4	22.8	23.6	23.2	24.1	24.6
	12H	21.6	22.4	22.1	22.9	23.4	22.8	23.6	23.3	24.1	24.6
8H	4H	21.4	22.3	21.9	22.7	23.2	22.4	23.2	22.8	23.7	24.1
	6H	22.0	22.8	22.5	23.2	23.7	23.0	23.7	23.5	24.2	24.7
	8H	22.2	22.9	22.7	23.4	23.9	23.2	23.9	23.7	24.4	24.8
	12H	22.3	22.9	22.8	23.4	23.9	23.3	23.9	23.8	24.4	24.9
12H	4H	21.5	22.3	21.9	22.7	23.2	22.4	23.2	22.9	23.6	24.1
	6H	22.1	22.8	22.6	23.2	23.8	23.1	23.7	23.6	24.2	24.7
	8H	22.3	22.9	22.8	23.4	24.0	23.3	23.9	23.8	24.3	24.9

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 1968.266 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.)