



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L63-930-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-L63-930-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	5134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	4875	5027	5310
55	4481	4910	5312
65	3904	4799	5083
75	2949	4281	4495
85	1271	2084	1766

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-930-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>
0	1785.702	1785.702	1785.702	1785.702	1785.702
5	1813.459	1779.534	1770.281	1765.141	1761.029
10	1782.618	1751.777	1746.637	1743.552	1738.412
15	1740.468	1714.767	1709.627	1714.767	1707.571
20	1671.590	1650.001	1650.001	1659.253	1659.253
25	1592.431	1575.982	1584.207	1599.627	1600.655
30	1502.992	1486.543	1504.020	1528.693	1528.693
35	1402.244	1389.907	1408.412	1445.421	1448.506
40	1284.019	1281.963	1302.524	1347.758	1358.038
45	1151.403	1153.459	1187.384	1241.870	1254.206
50	1008.505	1019.814	1067.103	1121.589	1141.122
55	858.412	887.197	940.655	992.057	1017.758
60	709.346	753.552	814.206	856.356	880.001
65	551.028	601.402	677.477	706.262	717.571
70	407.103	467.757	531.496	546.916	562.337
75	254.953	333.084	370.094	367.010	388.598
80	132.617	191.215	210.748	196.355	210.748
85	37.009	65.794	60.654	51.402	51.402
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-930-AF-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	652.24	N.A.	12.70
0-30	1384.64	N.A.	27.00
0-40	2271.11	N.A.	44.20
0-60	4034.2	N.A.	78.60
0-80	5051.68	N.A.	98.40
0-90	5134.27	N.A.	100.00
10-90	4965.56	N.A.	96.70
20-40	1618.87	N.A.	31.50
20-50	2541.68	N.A.	49.50
40-70	2412.29	N.A.	47.00
60-80	1017.48	N.A.	19.80
70-80	368.29	N.A.	7.20
80-90	82.59	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	5134.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.72
10-20	483.52
20-30	732.41
30-40	886.46
40-50	922.81
50-60	840.28
60-70	649.19
70-80	368.29
80-90	82.59
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-L63-930-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-L63-930-AF-DIM-UNV_.IES

UGR TABLE - CORRECTED

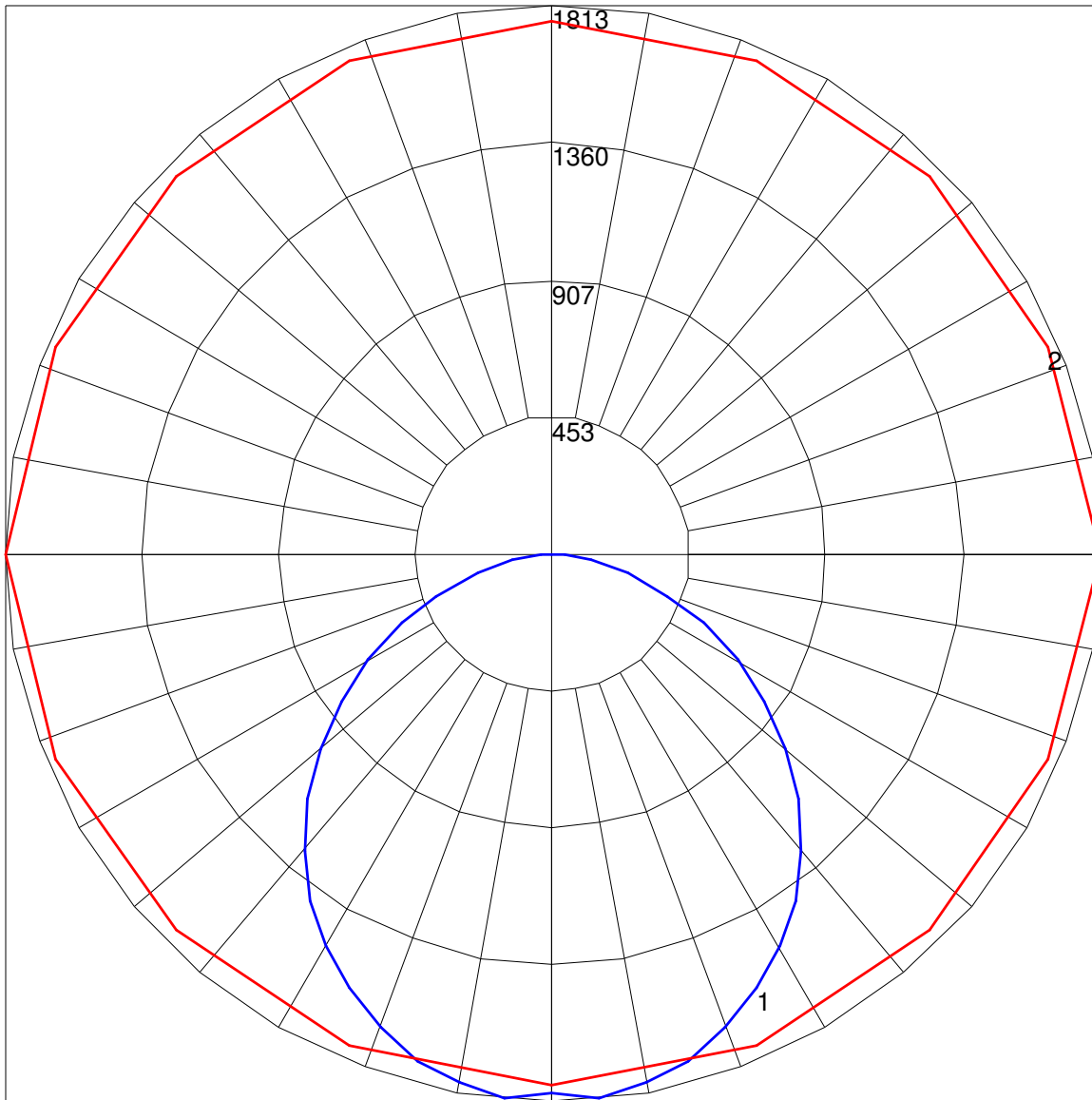
Reflectances

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	17.3	18.9	17.6	19.2	19.6	18.2	19.9	18.6	20.2	20.5
	3H	18.9	20.4	19.3	20.8	21.1	20.1	21.6	20.5	22.0	22.3
	4H	19.5	20.9	19.9	21.2	21.6	20.8	22.2	21.2	22.6	23.0
	6H	19.8	21.1	20.2	21.5	21.9	21.3	22.6	21.7	23.0	23.3
	8H	19.9	21.1	20.3	21.5	21.9	21.4	22.6	21.8	23.0	23.4
	12H	19.9	21.1	20.4	21.5	21.9	21.4	22.6	21.9	23.0	23.4
4H	2H	18.1	19.5	18.5	19.9	20.2	18.8	20.2	19.2	20.6	20.9
	3H	20.0	21.2	20.4	21.6	22.0	21.0	22.1	21.4	22.5	22.9
	4H	20.7	21.8	21.2	22.2	22.6	21.8	22.8	22.2	23.3	23.7
	6H	21.2	22.1	21.6	22.5	23.0	22.3	23.3	22.8	23.7	24.2
	8H	21.3	22.2	21.7	22.6	23.1	22.5	23.3	22.9	23.8	24.3
	12H	21.3	22.1	21.8	22.6	23.1	22.5	23.3	23.0	23.8	24.3
8H	4H	21.1	22.0	21.6	22.4	22.9	22.1	22.9	22.5	23.4	23.8
	6H	21.7	22.5	22.2	22.9	23.4	22.7	23.4	23.2	23.9	24.4
	8H	21.9	22.6	22.4	23.1	23.6	22.9	23.6	23.4	24.1	24.5
	12H	22.0	22.6	22.5	23.1	23.6	23.0	23.6	23.5	24.1	24.6
12H	4H	21.2	22.0	21.6	22.4	22.9	22.1	22.9	22.6	23.3	23.8
	6H	21.8	22.5	22.3	22.9	23.5	22.8	23.4	23.3	23.9	24.4
	8H	22.0	22.6	22.5	23.1	23.7	23.0	23.6	23.5	24.0	24.6

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 1813.459 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.)