



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-940-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-L63-940-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	5385
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	5113	5273	5569
55	4699	5149	5572
65	4094	5034	5331
75	3093	4490	4714
85	1333	2185	1852

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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	1872.809	1872.809	1872.809	1872.809	1872.809
5	1901.920	1866.340	1856.636	1851.245	1846.933
10	1869.575	1837.229	1831.838	1828.604	1823.213
15	1825.369	1798.414	1793.023	1798.414	1790.867
20	1753.130	1730.489	1730.489	1740.192	1740.192
25	1670.110	1652.859	1661.485	1677.657	1678.736
30	1576.308	1559.057	1577.386	1603.263	1603.263
35	1470.646	1457.708	1477.115	1515.930	1519.164
40	1346.654	1344.498	1366.062	1413.502	1424.284
45	1207.568	1209.725	1245.305	1302.449	1315.387
50	1057.701	1069.561	1119.157	1176.301	1196.786
55	900.285	930.475	986.540	1040.450	1067.404
60	743.948	790.310	853.923	898.129	922.927
65	577.908	630.739	710.525	740.714	752.574
70	426.962	490.575	557.422	573.595	589.768
75	267.390	349.332	388.147	384.912	407.554
80	139.086	200.543	221.028	205.934	221.028
85	38.815	69.004	63.613	53.909	53.909
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	684.05	N.A.	12.70
0-30	1452.19	N.A.	27.00
0-40	2381.89	N.A.	44.20
0-60	4230.99	N.A.	78.60
0-80	5298.1	N.A.	98.40
0-90	5384.72	N.A.	100.00
10-90	5207.78	N.A.	96.70
20-40	1697.84	N.A.	31.50
20-50	2665.66	N.A.	49.50
40-70	2529.96	N.A.	47.00
60-80	1067.12	N.A.	19.80
70-80	386.26	N.A.	7.20
80-90	86.62	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	5384.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.95
10-20	507.11
20-30	768.13
30-40	929.70
40-50	967.83
50-60	881.27
60-70	680.86
70-80	386.26
80-90	86.62
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

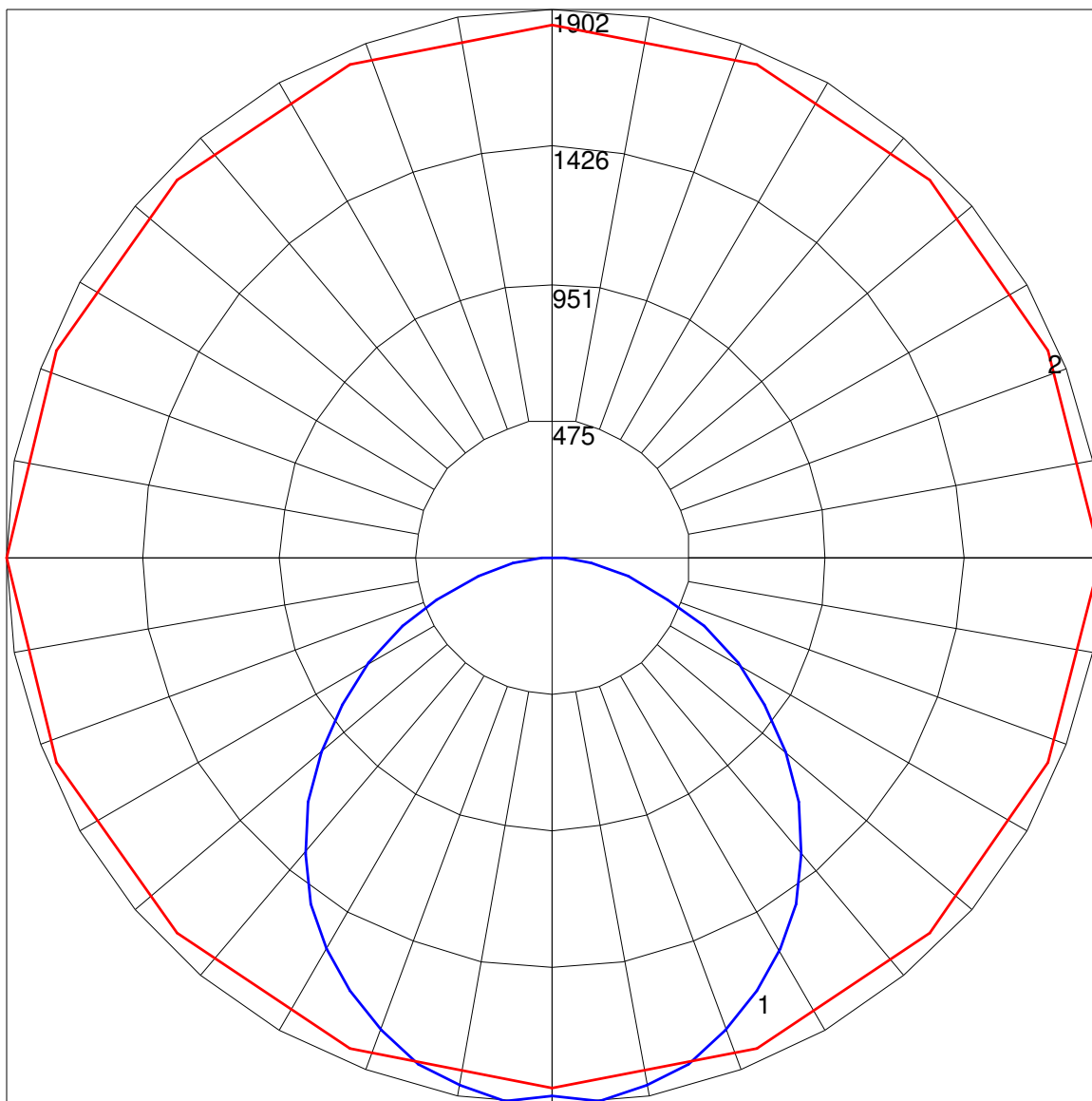
Reflectances

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	17.4	19.0	17.7	19.3	19.7	18.3	20.0	18.7	20.3	20.6
	3H	19.0	20.5	19.4	20.9	21.2	20.2	21.7	20.6	22.1	22.4
	4H	19.6	21.0	20.0	21.3	21.7	20.9	22.3	21.3	22.7	23.1
	6H	19.9	21.2	20.3	21.6	22.0	21.4	22.7	21.8	23.1	23.4
	8H	20.0	21.2	20.4	21.6	22.0	21.5	22.7	21.9	23.1	23.5
	12H	20.0	21.2	20.5	21.6	22.0	21.5	22.7	22.0	23.1	23.5
4H	2H	18.2	19.6	18.6	20.0	20.3	18.9	20.3	19.3	20.7	21.0
	3H	20.1	21.3	20.5	21.7	22.1	21.1	22.2	21.5	22.6	23.0
	4H	20.8	21.9	21.3	22.3	22.7	21.9	22.9	22.3	23.4	23.8
	6H	21.3	22.2	21.7	22.6	23.1	22.4	23.4	22.9	23.8	24.3
	8H	21.4	22.3	21.8	22.7	23.2	22.6	23.4	23.0	23.9	24.4
	12H	21.4	22.2	21.9	22.7	23.2	22.6	23.4	23.1	23.9	24.4
8H	4H	21.2	22.1	21.7	22.5	23.0	22.2	23.0	22.6	23.5	23.9
	6H	21.8	22.6	22.3	23.0	23.5	22.8	23.5	23.3	24.0	24.5
	8H	22.0	22.7	22.5	23.2	23.7	23.0	23.7	23.5	24.2	24.6
	12H	22.1	22.7	22.6	23.2	23.7	23.1	23.7	23.6	24.2	24.7
12H	4H	21.3	22.1	21.7	22.5	23.0	22.2	23.0	22.7	23.4	23.9
	6H	21.9	22.6	22.4	23.0	23.6	22.9	23.5	23.4	24.0	24.5
	8H	22.1	22.7	22.6	23.2	23.8	23.1	23.7	23.6	24.1	24.7

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 1901.92 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.)