



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LT-14-L63-927-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-L63-927-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	5009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	4756	4905	5181
55	4371	4790	5183
65	3808	4682	4959
75	2877	4177	4386
85	1240	2033	1723

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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	1742.149	1742.149	1742.149	1742.149	1742.149
5	1769.229	1736.131	1727.104	1722.089	1718.077
10	1739.140	1709.051	1704.036	1701.027	1696.012
15	1698.018	1672.944	1667.929	1672.944	1665.923
20	1630.819	1609.757	1609.757	1618.784	1618.784
25	1553.591	1537.544	1545.568	1560.612	1561.615
30	1466.333	1450.286	1467.336	1491.407	1491.407
35	1368.043	1356.007	1374.061	1410.167	1413.176
40	1252.702	1250.696	1270.755	1314.886	1324.915
45	1123.320	1125.326	1158.423	1211.581	1223.616
50	983.908	994.940	1041.077	1094.234	1113.290
55	837.475	865.558	917.712	967.860	992.934
60	692.045	735.173	794.348	835.469	858.537
65	537.589	586.734	660.953	689.036	700.069
70	397.174	456.349	518.532	533.577	548.621
75	248.735	324.960	361.067	358.058	379.120
80	129.382	186.551	205.608	191.566	205.608
85	36.107	64.190	59.175	50.148	50.148
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	636.33	N.A.	12.70
0-30	1350.87	N.A.	27.00
0-40	2215.71	N.A.	44.20
0-60	3935.8	N.A.	78.60
0-80	4928.47	N.A.	98.40
0-90	5009.05	N.A.	100.00
10-90	4844.45	N.A.	96.70
20-40	1579.38	N.A.	31.50
20-50	2479.69	N.A.	49.50
40-70	2353.45	N.A.	47.00
60-80	992.67	N.A.	19.80
70-80	359.31	N.A.	7.20
80-90	80.58	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	5009.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.60
10-20	471.73
20-30	714.54
30-40	864.84
40-50	900.31
50-60	819.78
60-70	633.36
70-80	359.31
80-90	80.58
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

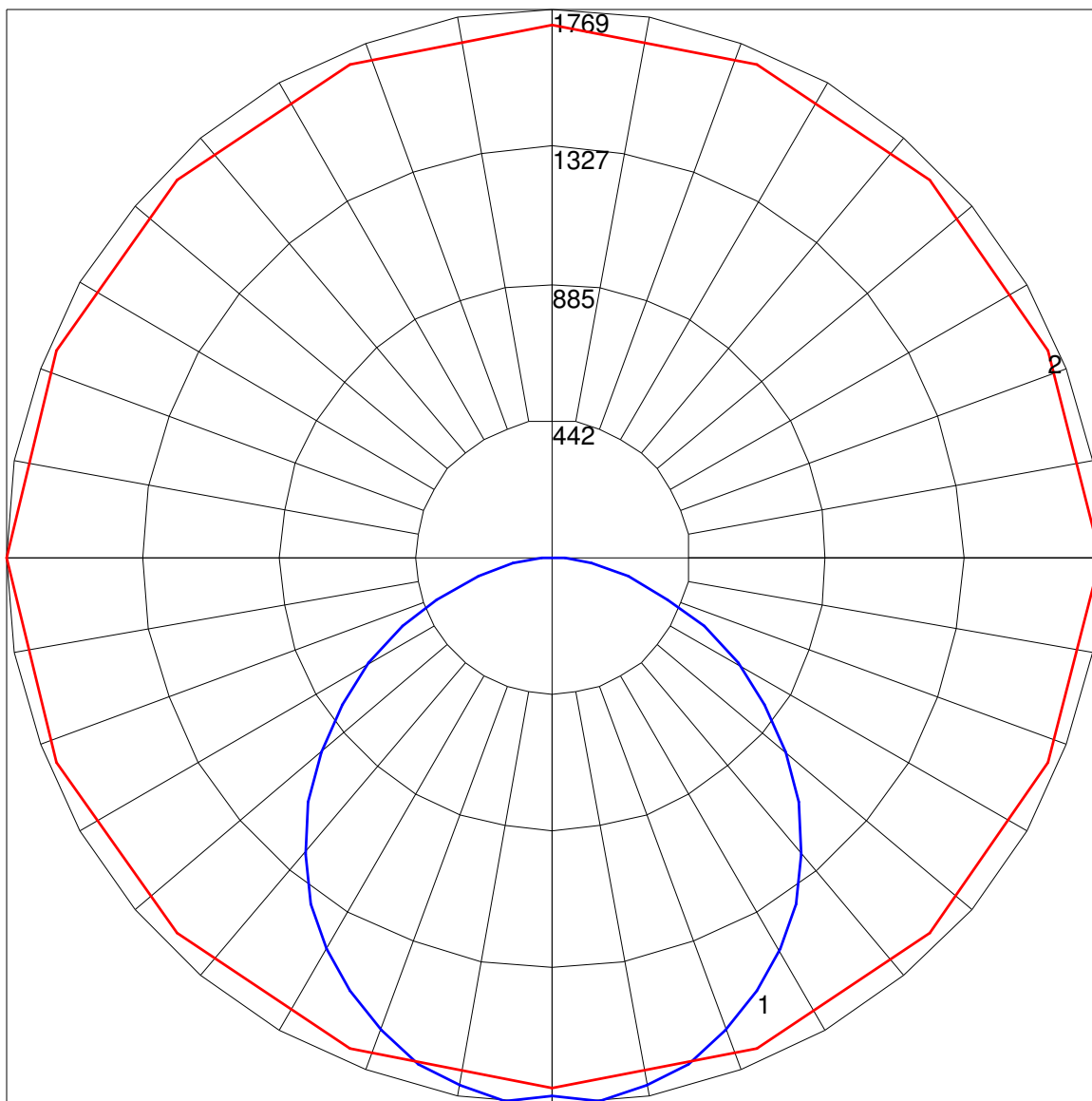
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.2	18.8	17.5	19.1	19.5	18.1	19.8	18.5	20.1	20.4
	3H	18.8	20.3	19.2	20.7	21.0	20.0	21.5	20.4	21.9	22.2
	4H	19.4	20.8	19.8	21.1	21.5	20.7	22.1	21.1	22.5	22.9
	6H	19.7	21.0	20.1	21.4	21.8	21.2	22.5	21.6	22.9	23.2
	8H	19.8	21.0	20.2	21.4	21.8	21.3	22.5	21.7	22.9	23.3
	12H	19.8	21.0	20.3	21.4	21.8	21.3	22.5	21.8	22.9	23.3
4H	2H	18.0	19.4	18.4	19.8	20.1	18.7	20.1	19.1	20.5	20.8
	3H	19.9	21.1	20.3	21.5	21.9	20.9	22.0	21.3	22.4	22.8
	4H	20.6	21.7	21.1	22.1	22.5	21.7	22.7	22.1	23.2	23.6
	6H	21.1	22.0	21.5	22.4	22.9	22.2	23.2	22.7	23.6	24.1
	8H	21.2	22.1	21.6	22.5	23.0	22.4	23.2	22.8	23.7	24.2
	12H	21.2	22.0	21.7	22.5	23.0	22.4	23.2	22.9	23.7	24.2
8H	4H	21.0	21.9	21.5	22.3	22.8	22.0	22.8	22.4	23.3	23.7
	6H	21.6	22.4	22.1	22.8	23.3	22.6	23.3	23.1	23.8	24.3
	8H	21.8	22.5	22.3	23.0	23.5	22.8	23.5	23.3	24.0	24.4
	12H	21.9	22.5	22.4	23.0	23.5	22.9	23.5	23.4	24.0	24.5
12H	4H	21.1	21.9	21.5	22.3	22.8	22.0	22.8	22.5	23.2	23.7
	6H	21.7	22.4	22.2	22.8	23.4	22.7	23.3	23.2	23.8	24.3
	8H	21.9	22.5	22.4	23.0	23.6	22.9	23.5	23.4	23.9	24.5

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 1769.229 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.)