



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L47-827-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-L47-827-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	4537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	33.7
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	4308	4443	4693
55	3959	4339	4694
65	3449	4241	4492
75	2606	3783	3972
85	1123	1841	1560

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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	1577.940	1577.940	1577.940	1577.940	1577.940
5	1602.467	1572.489	1564.313	1559.771	1556.137
10	1575.214	1547.961	1543.419	1540.694	1536.152
15	1537.969	1515.258	1510.716	1515.258	1508.899
20	1477.104	1458.027	1458.027	1466.203	1466.203
25	1407.155	1392.620	1399.888	1413.514	1414.423
30	1328.122	1313.587	1329.030	1350.833	1350.833
35	1239.096	1228.195	1244.546	1277.250	1279.975
40	1134.627	1132.810	1150.978	1190.949	1200.033
45	1017.439	1019.256	1049.234	1097.381	1108.282
50	891.168	901.161	942.948	991.095	1008.355
55	758.537	783.973	831.212	876.633	899.344
60	626.815	665.878	719.475	756.721	777.614
65	486.917	531.430	598.654	624.090	634.083
70	359.738	413.335	469.657	483.284	496.910
75	225.290	294.331	327.034	324.309	343.386
80	117.187	168.968	186.228	173.510	186.228
85	32.703	58.139	53.597	45.421	45.421
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.35	N.A.	12.70
0-30	1223.54	N.A.	27.00
0-40	2006.87	N.A.	44.20
0-60	3564.83	N.A.	78.60
0-80	4463.93	N.A.	98.40
0-90	4536.91	N.A.	100.00
10-90	4387.83	N.A.	96.70
20-40	1430.52	N.A.	31.50
20-50	2245.96	N.A.	49.50
40-70	2131.62	N.A.	47.00
60-80	899.10	N.A.	19.80
70-80	325.44	N.A.	7.20
80-90	72.98	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	4536.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.09
10-20	427.27
20-30	647.19
30-40	783.32
40-50	815.45
50-60	742.51
60-70	573.66
70-80	325.44
80-90	72.98
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

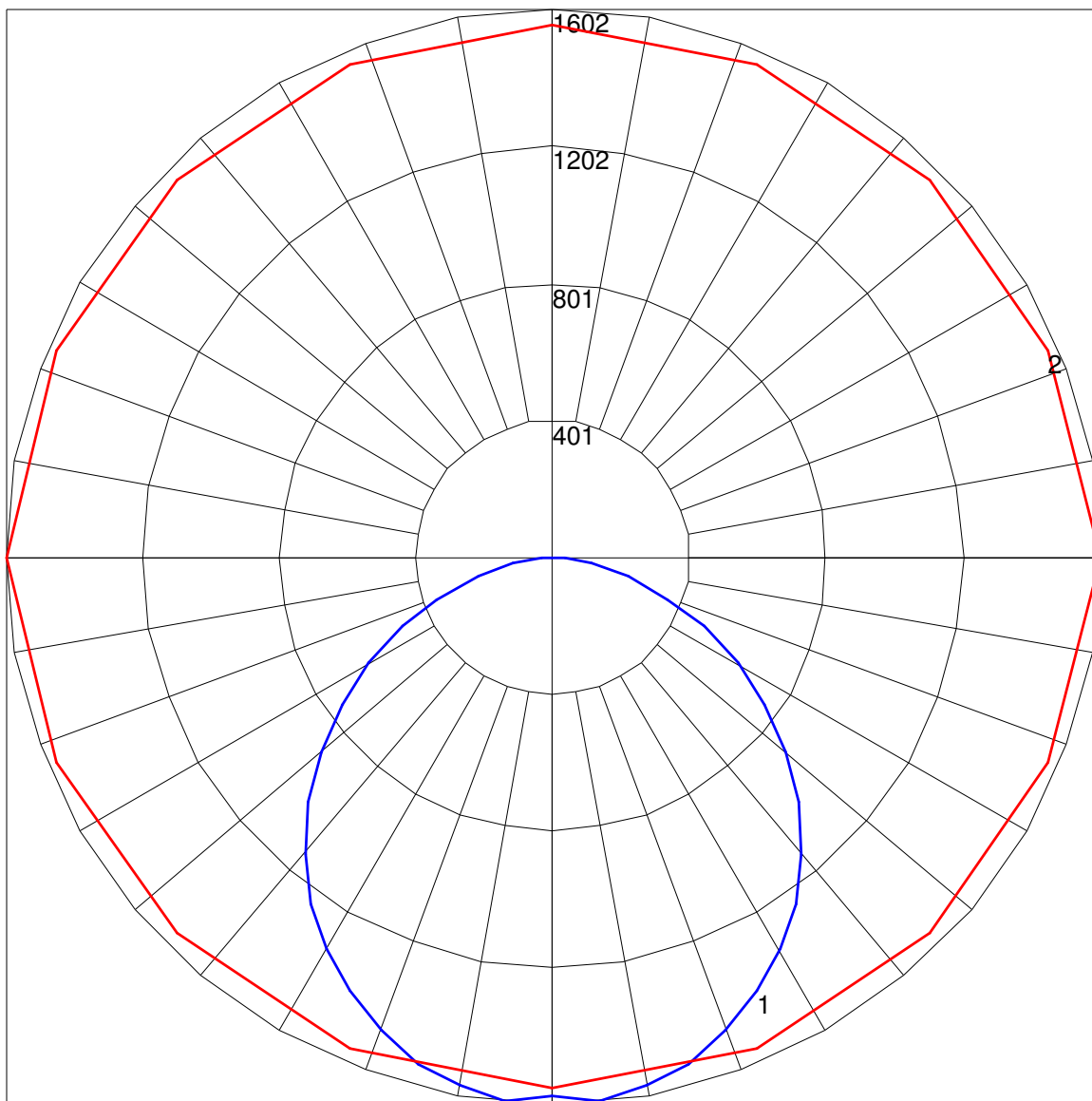
Reflectances

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	16.9	18.5	17.2	18.8	19.2	17.8	19.5	18.2	19.8	20.1
	3H	18.5	20.0	18.9	20.4	20.7	19.7	21.2	20.1	21.6	21.9
	4H	19.1	20.5	19.5	20.8	21.2	20.4	21.8	20.8	22.2	22.6
	6H	19.4	20.7	19.8	21.1	21.5	20.9	22.2	21.3	22.6	22.9
	8H	19.5	20.7	19.9	21.1	21.5	21.0	22.2	21.4	22.6	23.0
	12H	19.5	20.7	20.0	21.1	21.5	21.0	22.2	21.5	22.6	23.0
4H	2H	17.7	19.1	18.1	19.5	19.8	18.4	19.8	18.8	20.2	20.5
	3H	19.6	20.8	20.0	21.2	21.6	20.6	21.7	21.0	22.1	22.5
	4H	20.3	21.4	20.8	21.8	22.2	21.4	22.4	21.8	22.9	23.3
	6H	20.8	21.7	21.2	22.1	22.6	21.9	22.9	22.4	23.3	23.8
	8H	20.9	21.8	21.3	22.2	22.7	22.1	22.9	22.5	23.4	23.9
	12H	20.9	21.7	21.4	22.2	22.7	22.1	22.9	22.6	23.4	23.9
8H	4H	20.7	21.6	21.2	22.0	22.5	21.7	22.5	22.1	23.0	23.4
	6H	21.3	22.1	21.8	22.5	23.0	22.3	23.0	22.8	23.5	24.0
	8H	21.5	22.2	22.0	22.7	23.2	22.5	23.2	23.0	23.7	24.1
	12H	21.6	22.2	22.1	22.7	23.2	22.6	23.2	23.1	23.7	24.2
12H	4H	20.8	21.6	21.2	22.0	22.5	21.7	22.5	22.2	22.9	23.4
	6H	21.4	22.1	21.9	22.5	23.1	22.4	23.0	22.9	23.5	24.0
	8H	21.6	22.2	22.1	22.7	23.3	22.6	23.2	23.1	23.6	24.2

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1602.467 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.)