



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L11-RED-SAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19833.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 17-FEB-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE

[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR

[LUMCAT] MCTG-22-L11-RED-SAF12125-DIM-UNV

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Healthcare, Institutional, Office, Direct, Clean Room

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1124
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	25.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1689	1684	1708
55	1343	1318	1324
65	995	941	940
75	669	574	590
85	217	129	211

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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	499.739	499.739	499.739	499.739	499.739
5	498.443	498.325	497.971	496.911	496.911
10	489.843	491.256	490.903	490.196	489.607
15	476.531	478.533	478.298	479.358	478.533
20	458.153	460.509	460.273	464.868	461.922
25	432.588	435.887	438.479	442.602	438.125
30	400.780	406.789	409.616	411.265	407.731
35	363.200	370.857	372.271	369.915	368.619
40	321.850	325.266	325.502	323.970	326.208
45	274.727	274.609	274.020	273.549	277.907
50	226.190	222.774	223.598	221.713	225.365
55	177.300	174.826	173.884	174.826	174.708
60	132.651	130.059	129.941	131.709	131.355
65	96.720	95.070	91.536	94.835	91.418
70	65.030	64.794	58.904	64.205	59.021
75	39.819	38.287	34.164	37.698	35.107
80	18.025	17.671	14.608	16.140	17.082
85	4.359	4.712	2.592	3.299	4.241
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	182.21	N.A.	16.20
0-30	383.62	N.A.	34.10
0-40	614.01	N.A.	54.60
0-60	982.92	N.A.	87.50
0-80	1117.43	N.A.	99.40
0-90	1123.95	N.A.	100.00
10-90	1076.67	N.A.	95.80
20-40	431.80	N.A.	38.40
20-50	643.41	N.A.	57.20
40-70	463.16	N.A.	41.20
60-80	134.51	N.A.	12.00
70-80	40.26	N.A.	3.60
80-90	6.51	N.A.	0.60
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	1123.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.28
10-20	134.93
20-30	201.41
30-40	230.39
40-50	211.61
50-60	157.30
60-70	94.24
70-80	40.26
80-90	6.51
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	39	39	39	39	38	38	38	38	36	36	36	35	35	35	33	33	33	33
1	36	35	33	32	35	34	33	32	33	32	31	31	31	30	30	30	29	28
2	33	31	29	27	32	30	28	27	29	27	26	28	27	26	27	26	25	24
3	30	27	25	23	30	27	25	23	26	24	22	25	23	22	24	23	22	21
4	28	24	22	20	27	24	22	20	23	21	20	23	21	19	22	20	19	18
5	26	22	19	17	25	22	19	17	21	19	17	20	18	17	20	18	17	16
6	24	20	17	15	23	20	17	15	19	17	15	19	17	15	18	16	15	14
7	22	18	16	14	22	18	15	14	18	15	14	17	15	13	17	15	13	13
8	21	17	14	12	20	17	14	12	16	14	12	16	14	12	15	13	12	11
9	20	15	13	11	19	15	13	11	15	13	11	15	12	11	14	12	11	10
10	18	14	12	10	18	14	12	10	14	12	10	13	11	10	13	11	10	9

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UGR TABLE - CORRECTED

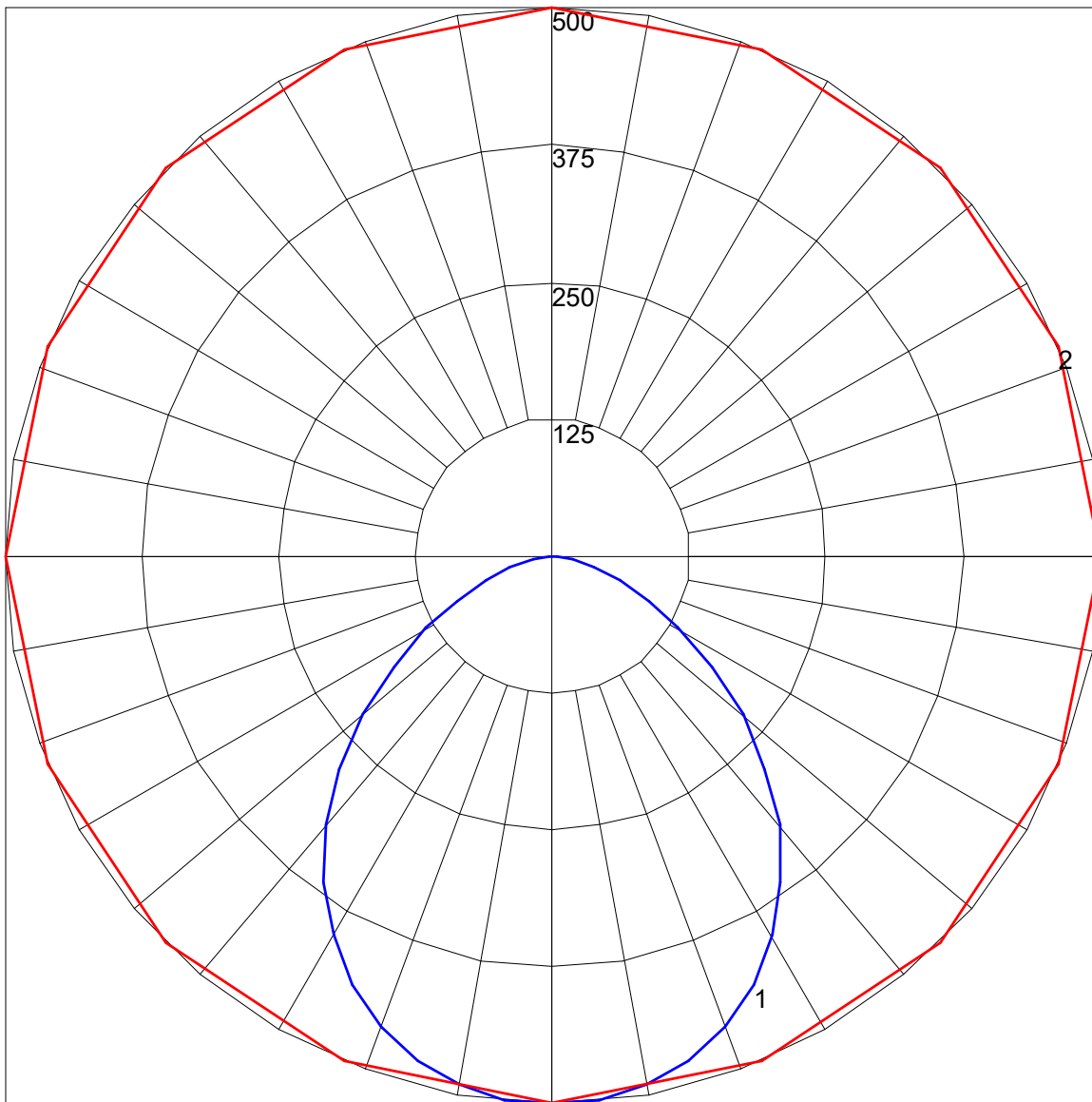
Reflectances

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	16.3	17.8	16.6	18.1	18.4	16.3	17.8	16.7	18.1	18.4
	3H	17.4	18.8	17.8	19.1	19.5	17.4	18.7	17.7	19.0	19.4
	4H	17.8	19.1	18.2	19.4	19.8	17.7	18.9	18.1	19.3	19.7
	6H	18.0	19.1	18.4	19.5	19.9	17.8	19.0	18.2	19.3	19.7
	8H	18.0	19.1	18.4	19.5	19.9	17.8	18.9	18.2	19.3	19.7
	12H	18.0	19.0	18.4	19.4	19.9	17.8	18.9	18.3	19.3	19.7
4H	2H	16.6	17.9	17.0	18.3	18.6	16.7	17.9	17.1	18.3	18.6
	3H	18.0	19.0	18.4	19.4	19.8	17.9	19.0	18.4	19.4	19.8
	4H	18.4	19.4	18.9	19.8	20.2	18.3	19.3	18.7	19.7	20.1
	6H	18.7	19.5	19.1	19.9	20.4	18.5	19.3	19.0	19.8	20.2
	8H	18.7	19.5	19.2	19.9	20.4	18.6	19.3	19.0	19.8	20.2
	12H	18.7	19.4	19.2	19.9	20.3	18.6	19.2	19.1	19.7	20.2
8H	4H	18.5	19.3	19.0	19.7	20.2	18.4	19.2	18.9	19.6	20.1
	6H	18.8	19.4	19.3	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	8H	18.9	19.4	19.4	19.9	20.4	18.7	19.3	19.2	19.8	20.3
	12H	18.9	19.4	19.4	19.9	20.5	18.7	19.2	19.2	19.7	20.3
12H	4H	18.5	19.2	19.0	19.7	20.1	18.4	19.1	18.9	19.6	20.0
	6H	18.8	19.4	19.3	19.8	20.4	18.7	19.2	19.2	19.7	20.2
	8H	18.9	19.4	19.4	19.9	20.4	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 499.739 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)