



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L95-835-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

[ISSUEDATE] 13-MAY-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-L95-835-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	9534
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	80.8
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	14323	14286	14489
55	11395	11176	11229
65	8437	7985	7974
75	5672	4866	5000
85	1844	1096	1794

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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	4238.888	4238.888	4238.888	4238.888	4238.888
5	4227.896	4226.897	4223.899	4214.905	4214.905
10	4154.949	4166.941	4163.943	4157.947	4152.951
15	4042.032	4059.020	4057.021	4066.015	4059.020
20	3886.147	3906.132	3904.134	3943.105	3918.123
25	3669.306	3697.285	3719.269	3754.244	3716.271
30	3399.504	3450.467	3474.449	3488.439	3458.461
35	3080.738	3145.690	3157.682	3137.696	3126.704
40	2729.996	2758.974	2760.973	2747.982	2766.968
45	2330.289	2329.290	2324.293	2320.296	2357.269
50	1918.591	1889.613	1896.607	1880.619	1911.596
55	1503.896	1482.911	1474.917	1482.911	1481.912
60	1125.174	1103.190	1102.191	1117.180	1114.182
65	820.398	806.408	776.430	804.409	775.431
70	551.595	549.596	499.633	544.600	500.632
75	337.752	324.762	289.787	319.765	297.781
80	152.888	149.890	123.909	136.899	144.894
85	36.973	39.971	21.984	27.979	35.974
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1545.55	N.A.	16.20
0-30	3253.97	N.A.	34.10
0-40	5208.14	N.A.	54.60
0-60	8337.37	N.A.	87.50
0-80	9478.29	N.A.	99.40
0-90	9533.54	N.A.	100.00
10-90	9132.53	N.A.	95.80
20-40	3662.59	N.A.	38.40
20-50	5457.54	N.A.	57.20
40-70	3928.61	N.A.	41.20
60-80	1140.92	N.A.	12.00
70-80	341.54	N.A.	3.60
80-90	55.25	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	9533.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	401.01
10-20	1144.54
20-30	1708.41
30-40	1954.17
40-50	1794.96
50-60	1334.27
60-70	799.38
70-80	341.54
80-90	55.25
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	329	329	329	329	321	321	321	321	307	307	307	294	294	294	282	282	282	276
1	305	294	283	274	298	287	278	270	276	268	261	265	259	253	255	251	246	240
2	280	260	244	230	274	255	240	227	246	233	222	237	226	217	229	220	212	207
3	258	232	212	196	252	228	209	194	220	204	191	212	199	187	205	194	184	179
4	238	208	186	169	232	204	184	168	197	180	165	191	176	163	185	172	161	156
5	220	187	164	147	214	184	163	147	179	160	145	173	157	144	168	154	142	137
6	204	170	147	130	199	167	146	130	162	143	129	158	141	128	154	138	127	121
7	190	155	132	116	185	153	131	116	149	129	115	145	127	114	141	125	113	108
8	177	142	120	104	173	140	119	104	136	117	104	133	116	103	130	114	102	97
9	166	131	109	95	162	129	109	94	126	107	94	123	106	94	120	105	93	88
10	156	121	100	86	152	120	100	86	117	98	86	114	97	85	112	96	85	80

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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

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

UGR Viewed Endwise

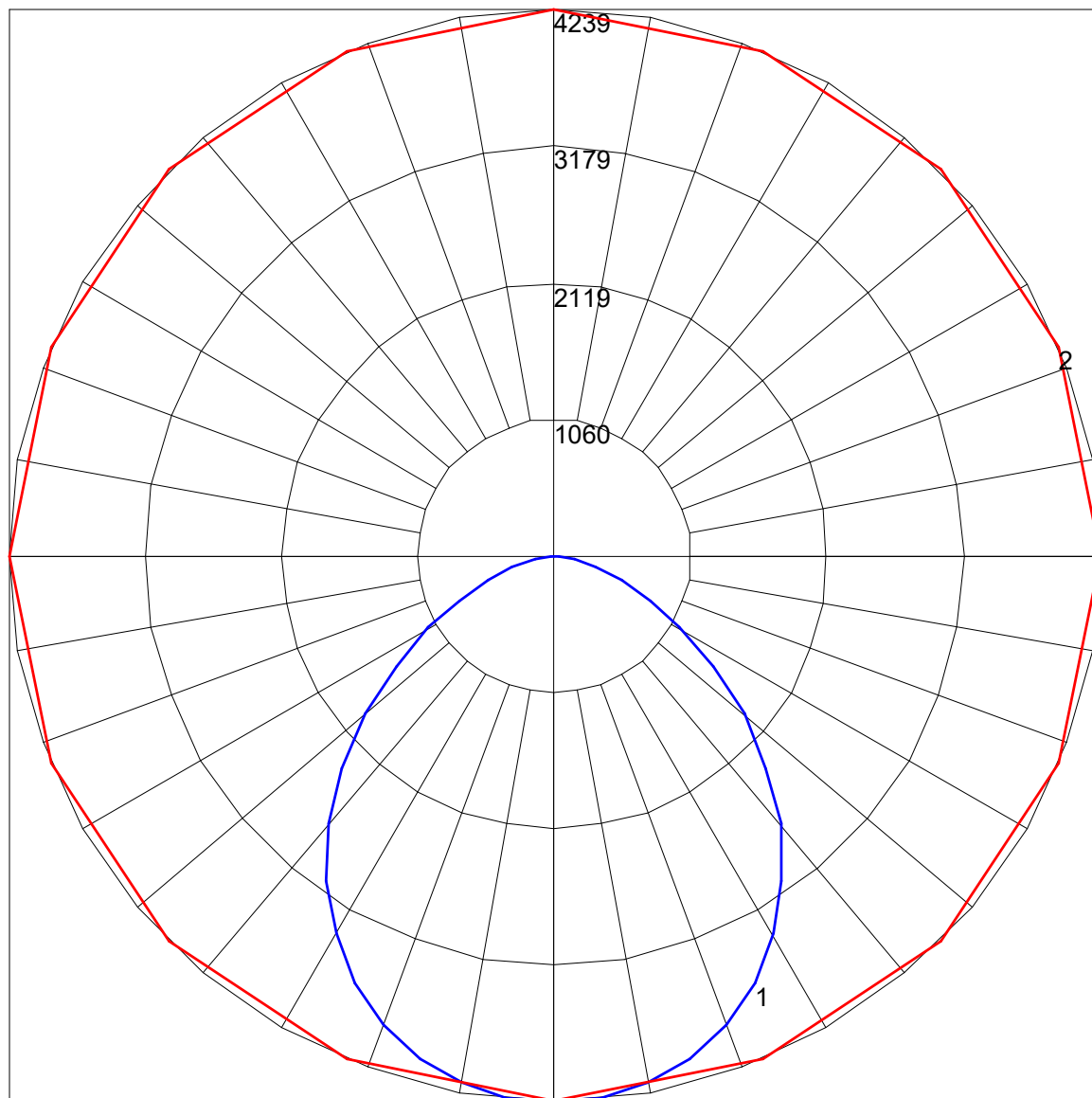
4H	2H	16.6	17.9	17.0	18.3	18.6	16.7	17.9	17.1	18.3	18.6
	3H	18.0	19.0	18.4	19.4	19.8	17.9	19.0	18.4	19.4	19.8
	4H	18.4	19.4	18.9	19.8	20.2	18.3	19.3	18.7	19.7	20.1
	6H	18.7	19.5	19.1	19.9	20.4	18.5	19.3	19.0	19.8	20.2
	8H	18.7	19.5	19.2	19.9	20.4	18.6	19.3	19.0	19.8	20.2
	12H	18.7	19.4	19.2	19.9	20.3	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 = 4238.888 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.)