



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L65-835-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-L65-835-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	6522
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	52.9
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	9798	9773	9911
55	7795	7645	7681
65	5771	5462	5455
75	3880	3329	3421
85	1261	750	1227

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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	2899.730	2899.730	2899.730	2899.730	2899.730
5	2892.211	2891.527	2889.476	2883.324	2883.324
10	2842.309	2850.512	2848.462	2844.360	2840.942
15	2765.065	2776.686	2775.319	2781.471	2776.686
20	2658.427	2672.099	2670.732	2697.391	2680.302
25	2510.091	2529.232	2544.270	2568.195	2542.220
30	2325.526	2360.388	2376.794	2386.364	2365.857
35	2107.465	2151.898	2160.100	2146.429	2138.910
40	1867.530	1887.354	1888.721	1879.834	1892.822
45	1594.099	1593.416	1589.998	1587.264	1612.556
50	1312.466	1292.642	1297.427	1286.490	1307.681
55	1028.782	1014.427	1008.958	1014.427	1013.743
60	769.707	754.668	753.984	764.238	762.187
65	561.216	551.646	531.139	550.279	530.455
70	377.334	375.967	341.788	372.549	342.472
75	231.049	222.162	198.237	218.744	203.706
80	104.587	102.536	84.763	93.650	99.119
85	25.292	27.343	15.039	19.140	24.609
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1057.28	N.A.	16.20
0-30	2225.97	N.A.	34.10
0-40	3562.77	N.A.	54.60
0-60	5703.41	N.A.	87.50
0-80	6483.89	N.A.	99.40
0-90	6521.69	N.A.	100.00
10-90	6247.36	N.A.	95.80
20-40	2505.49	N.A.	38.40
20-50	3733.39	N.A.	57.20
40-70	2687.48	N.A.	41.20
60-80	780.48	N.A.	12.00
70-80	233.64	N.A.	3.60
80-90	37.80	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	6521.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	274.32
10-20	782.96
20-30	1168.69
30-40	1336.81
40-50	1227.89
50-60	912.75
60-70	546.84
70-80	233.64
80-90	37.80
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	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	209	201	194	188	204	197	190	185	189	184	179	181	177	173	175	171	168	165
2	192	178	167	157	187	175	164	155	168	159	152	162	155	148	156	151	145	141
3	177	159	145	134	172	156	143	133	150	139	130	145	136	128	141	133	126	122
4	163	142	127	115	159	140	126	115	135	123	113	131	120	112	127	118	110	106
5	150	128	112	101	147	126	111	100	122	109	99	119	107	98	115	105	97	94
6	140	116	100	89	136	114	100	89	111	98	88	108	96	87	105	95	87	83
7	130	106	90	79	127	104	90	79	102	88	79	99	87	78	96	86	78	74
8	121	97	82	71	118	96	81	71	93	80	71	91	79	70	89	78	70	67
9	113	89	75	65	111	88	74	65	86	73	64	84	72	64	82	72	64	60
10	107	83	69	59	104	82	68	59	80	67	59	78	67	58	77	66	58	55

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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	UGR Viewed Endwise	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

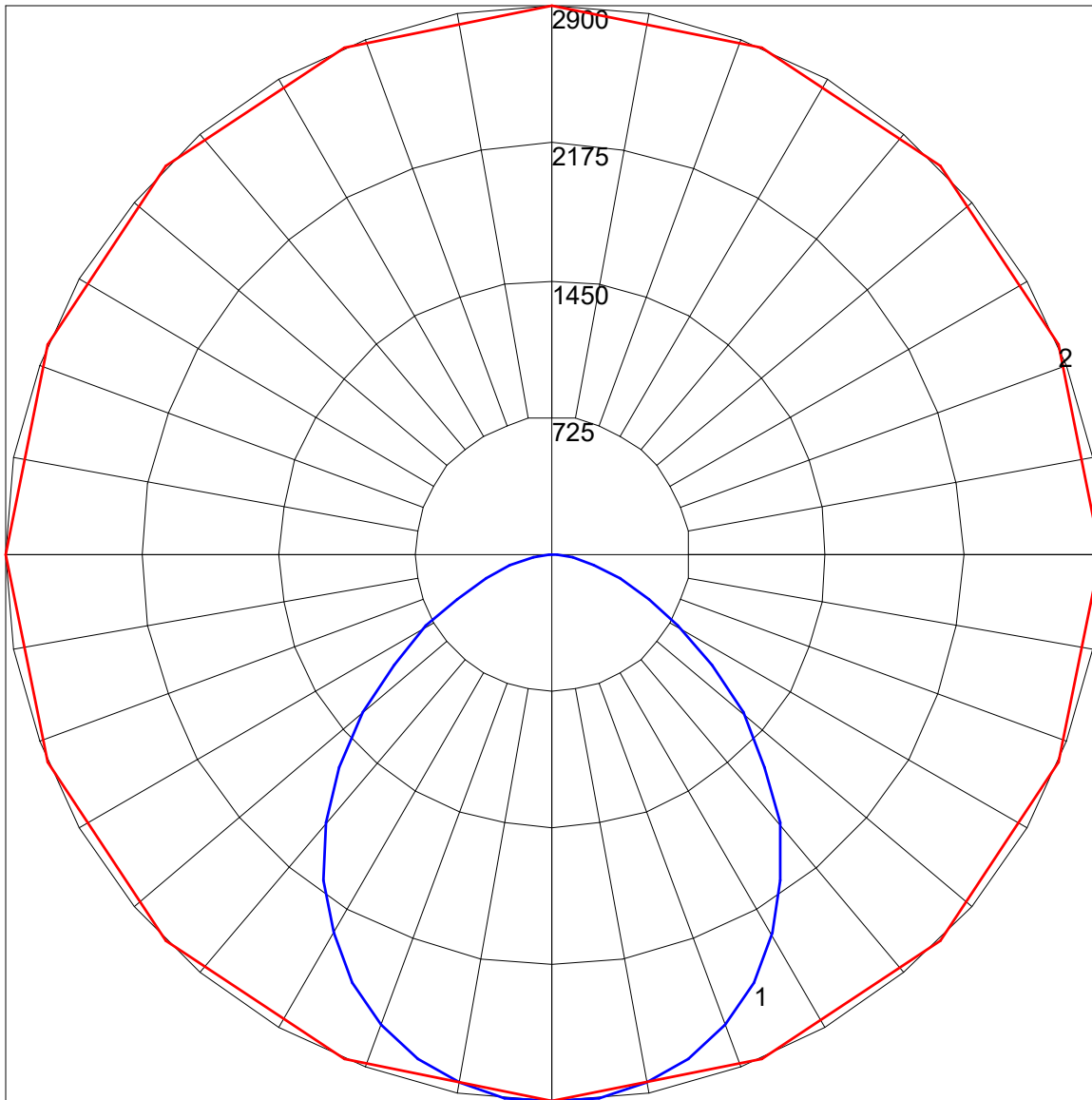
4H	2H	16.6	17.9	17.0	18.3	18.6	16.7	17.9	17.1	18.3	18.6
	3H	18.0	19.0	18.4	19.4	19.8	17.9	19.0	18.4	19.4	19.8
	4H	18.4	19.4	18.9	19.8	20.2	18.3	19.3	18.7	19.7	20.1
	6H	18.7	19.5	19.1	19.9	20.4	18.5	19.3	19.0	19.8	20.2
	8H	18.7	19.5	19.2	19.9	20.4	18.6	19.3	19.0	19.8	20.2
	12H	18.7	19.4	19.2	19.9	20.3	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 = 2899.73 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.)