



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L65-835-SAF125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19834.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 13-FEB-2020

[MANUFAC] WILLIAMS INDOOR

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

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

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

[LUMCAT] MCTG-22-L65-835-SAF125-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	5863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	52.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5858	5876	5881
55	5129	4992	5087
65	3975	3876	4001
75	2543	2635	2438
85	503	953	775

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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	2495.678	2495.678	2495.678	2495.678	2495.678
5	2505.694	2489.732	2476.900	2470.953	2471.579
10	2462.503	2449.045	2438.091	2433.083	2426.511
15	2389.892	2377.373	2373.304	2364.228	2360.159
20	2286.923	2281.289	2280.663	2256.251	2260.007
25	2156.098	2153.282	2148.274	2134.190	2139.824
30	2005.244	1998.984	1985.526	1985.526	1990.847
35	1823.091	1817.770	1812.137	1806.190	1808.068
40	1624.977	1624.977	1627.167	1617.778	1617.778
45	1419.977	1423.732	1424.358	1411.526	1425.610
50	1214.038	1203.709	1207.152	1184.618	1214.977
55	1008.412	987.755	981.496	983.061	1000.274
60	787.137	779.000	763.351	785.572	791.519
65	575.878	584.015	561.481	578.381	579.633
70	392.786	391.221	386.840	383.084	376.824
75	225.656	216.893	233.794	221.588	216.267
80	90.137	89.198	107.351	109.855	101.092
85	15.023	19.405	28.481	30.672	23.160
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	903.99	N.A.	15.40
0-30	1891.11	N.A.	32.30
0-40	3024.64	N.A.	51.60
0-60	5003.51	N.A.	85.30
0-80	5822.44	N.A.	99.30
0-90	5863.06	N.A.	100.00
10-90	5627.46	N.A.	96.00
20-40	2120.65	N.A.	36.20
20-50	3214.2	N.A.	54.80
40-70	2551.76	N.A.	43.50
60-80	818.93	N.A.	14.00
70-80	246.03	N.A.	4.20
80-90	40.63	N.A.	0.70
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	5863.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.60
10-20	668.39
20-30	987.12
30-40	1133.53
40-50	1093.55
50-60	885.32
60-70	572.89
70-80	246.03
80-90	40.63
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	208	200	193	186	203	196	189	183	188	182	177	180	176	172	174	170	167	163
2	191	176	165	155	186	173	162	153	166	157	149	160	153	146	155	148	143	139
3	175	156	142	131	170	154	140	130	148	137	127	143	133	125	138	130	123	119
4	161	140	124	112	157	137	123	112	133	120	110	128	117	109	124	115	107	103
5	148	126	110	98	145	123	108	97	120	106	96	116	104	95	112	102	94	90
6	138	114	97	86	134	112	97	86	108	95	85	105	93	84	102	92	83	80
7	128	103	88	76	125	102	87	76	99	85	76	96	84	75	94	83	75	71
8	119	95	79	69	116	93	79	68	91	78	68	89	76	68	86	75	67	64
9	112	87	72	62	109	86	72	62	84	71	62	82	70	61	80	69	61	58
10	105	81	66	56	102	80	66	56	78	65	56	76	64	56	74	63	56	52

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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

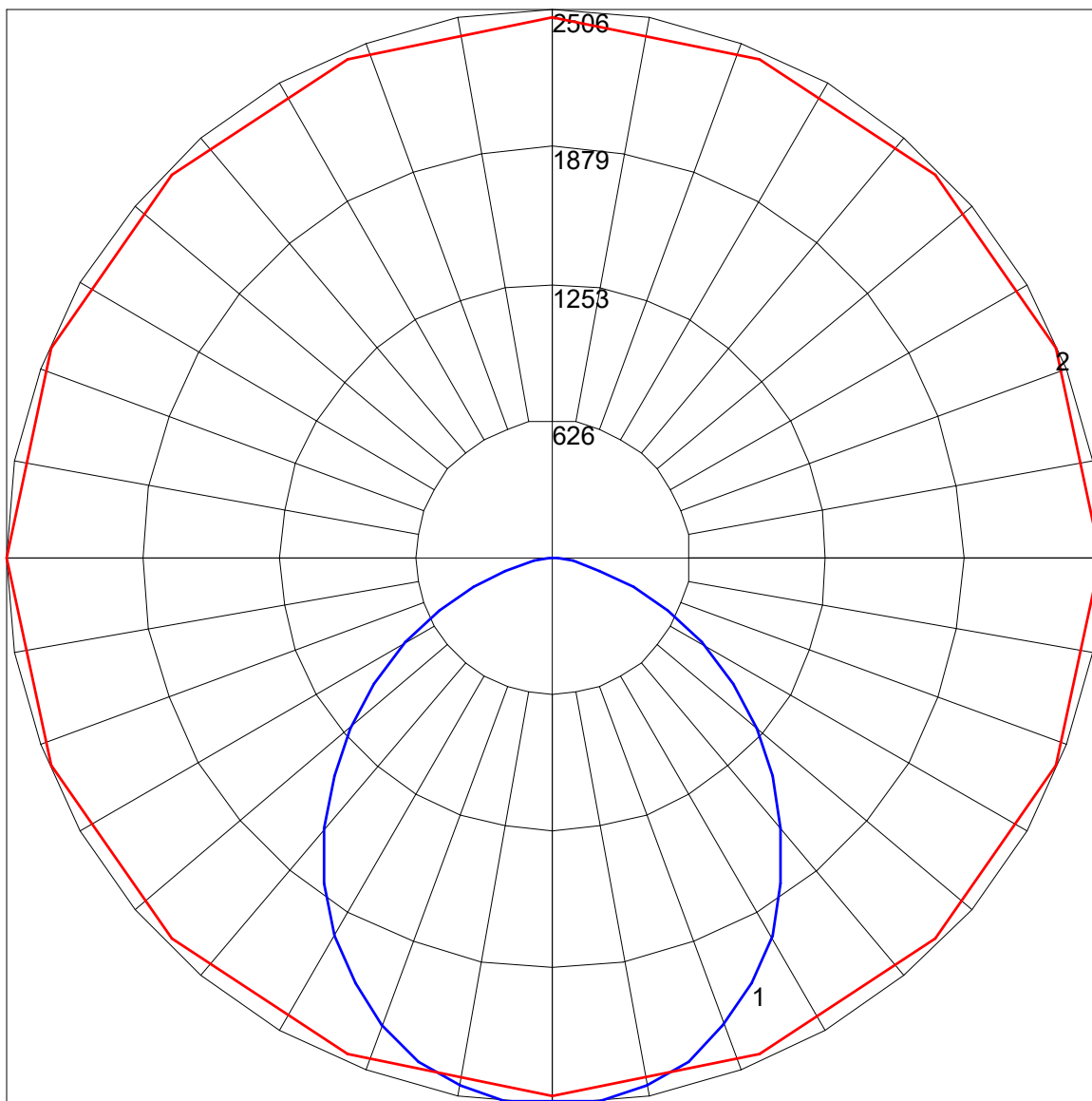
X=2H	Y=2H	15.2	16.7	15.5	17.0	17.3	15.2	16.7	15.5	17.0	17.4
	3H	16.4	17.8	16.8	18.2	18.5	16.4	17.8	16.8	18.1	18.5
	4H	16.8	18.1	17.2	18.4	18.8	16.7	18.0	17.1	18.4	18.7
	6H	16.9	18.1	17.3	18.5	18.9	16.9	18.1	17.3	18.5	18.8
	8H	16.9	18.1	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8
	12H	16.9	18.0	17.3	18.4	18.8	16.9	18.0	17.3	18.4	18.8

UGR Viewed Endwise

4H	2H	15.6	16.9	16.0	17.3	17.6	15.6	16.9	16.0	17.3	17.6
	3H	17.1	18.1	17.5	18.5	18.9	17.0	18.1	17.4	18.5	18.9
	4H	17.5	18.4	17.9	18.9	19.3	17.4	18.4	17.9	18.8	19.3
	6H	17.7	18.5	18.1	18.9	19.4	17.7	18.5	18.1	19.0	19.4
	8H	17.7	18.5	18.1	18.9	19.4	17.7	18.5	18.2	18.9	19.4
	12H	17.7	18.4	18.1	18.8	19.3	17.7	18.4	18.2	18.9	19.4
8H	4H	17.6	18.4	18.1	18.8	19.3	17.6	18.4	18.0	18.8	19.3
	6H	17.9	18.5	18.4	19.0	19.5	17.9	18.5	18.4	19.0	19.5
	8H	17.9	18.5	18.4	19.0	19.5	17.9	18.5	18.5	19.0	19.5
	12H	17.9	18.4	18.4	18.9	19.4	18.0	18.5	18.5	19.0	19.5
12H	4H	17.6	18.3	18.1	18.8	19.3	17.6	18.3	18.0	18.7	19.2
	6H	17.9	18.4	18.4	18.9	19.4	17.9	18.5	18.4	18.9	19.5
	8H	17.9	18.4	18.4	18.9	19.5	18.0	18.5	18.5	19.0	19.5

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 2505.694 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.)