



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L121-835-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] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFL LUMINAIRE

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

[LUMCAT] MCTG-24-L121-835-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	10899
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	91.9
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)	3.57 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	7143	7165	7171
55	6253	6086	6203
65	4847	4726	4878
75	3101	3213	2972
85	613	1162	945

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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	4639.333	4639.333	4639.333	4639.333	4639.333
5	4657.951	4628.279	4604.425	4593.370	4594.534
10	4577.661	4552.644	4532.280	4522.971	4510.754
15	4442.682	4419.410	4411.846	4394.974	4387.410
20	4251.267	4240.795	4239.631	4194.250	4201.232
25	4008.072	4002.836	3993.527	3967.345	3977.818
30	3727.641	3716.004	3690.987	3690.987	3700.877
35	3389.029	3379.138	3368.665	3357.611	3361.102
40	3020.745	3020.745	3024.817	3007.363	3007.363
45	2639.661	2646.642	2647.806	2623.952	2650.133
50	2256.831	2237.632	2244.032	2202.141	2258.577
55	1874.584	1836.184	1824.548	1827.457	1859.457
60	1463.246	1448.119	1419.028	1460.337	1471.391
65	1070.526	1085.653	1043.763	1075.180	1077.507
70	730.168	727.259	719.114	712.132	700.496
75	419.483	403.193	434.610	411.920	402.029
80	167.561	165.815	199.560	204.214	187.924
85	27.927	36.072	52.944	57.017	43.054
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1680.47	N.A.	15.40
0-30	3515.47	N.A.	32.30
0-40	5622.64	N.A.	51.60
0-60	9301.26	N.A.	85.30
0-80	10823.6	N.A.	99.30
0-90	10899.12	N.A.	100.00
10-90	10461.15	N.A.	96.00
20-40	3942.17	N.A.	36.20
20-50	5975.02	N.A.	54.80
40-70	4743.59	N.A.	43.50
60-80	1522.34	N.A.	14.00
70-80	457.37	N.A.	4.20
80-90	75.52	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	10899.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	437.97
10-20	1242.5
20-30	1835.00
30-40	2107.18
40-50	2032.85
50-60	1645.76
60-70	1064.98
70-80	457.37
80-90	75.52
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	237	237	237	237	232	232	232	232	222	222	222	212	212	212	204	204	204	199
1	219	211	203	197	214	207	200	193	198	192	187	190	186	182	183	180	176	172
2	201	186	174	163	196	183	171	162	176	166	158	169	161	154	163	157	151	147
3	185	165	150	138	180	162	148	137	156	144	135	151	141	132	146	137	130	126
4	170	147	131	119	165	145	130	118	140	127	116	135	124	115	131	121	113	109
5	157	133	116	103	153	130	114	103	126	112	101	122	110	100	119	108	99	95
6	145	120	103	91	141	118	102	90	115	100	90	111	99	89	108	97	88	84
7	135	109	92	81	132	108	92	80	105	90	80	102	89	79	99	88	79	75
8	126	100	84	72	123	99	83	72	96	82	72	94	81	71	91	80	71	67
9	118	92	76	65	115	91	76	65	89	75	65	86	74	65	84	73	64	61
10	111	85	70	60	108	84	69	59	82	69	59	80	68	59	78	67	59	55

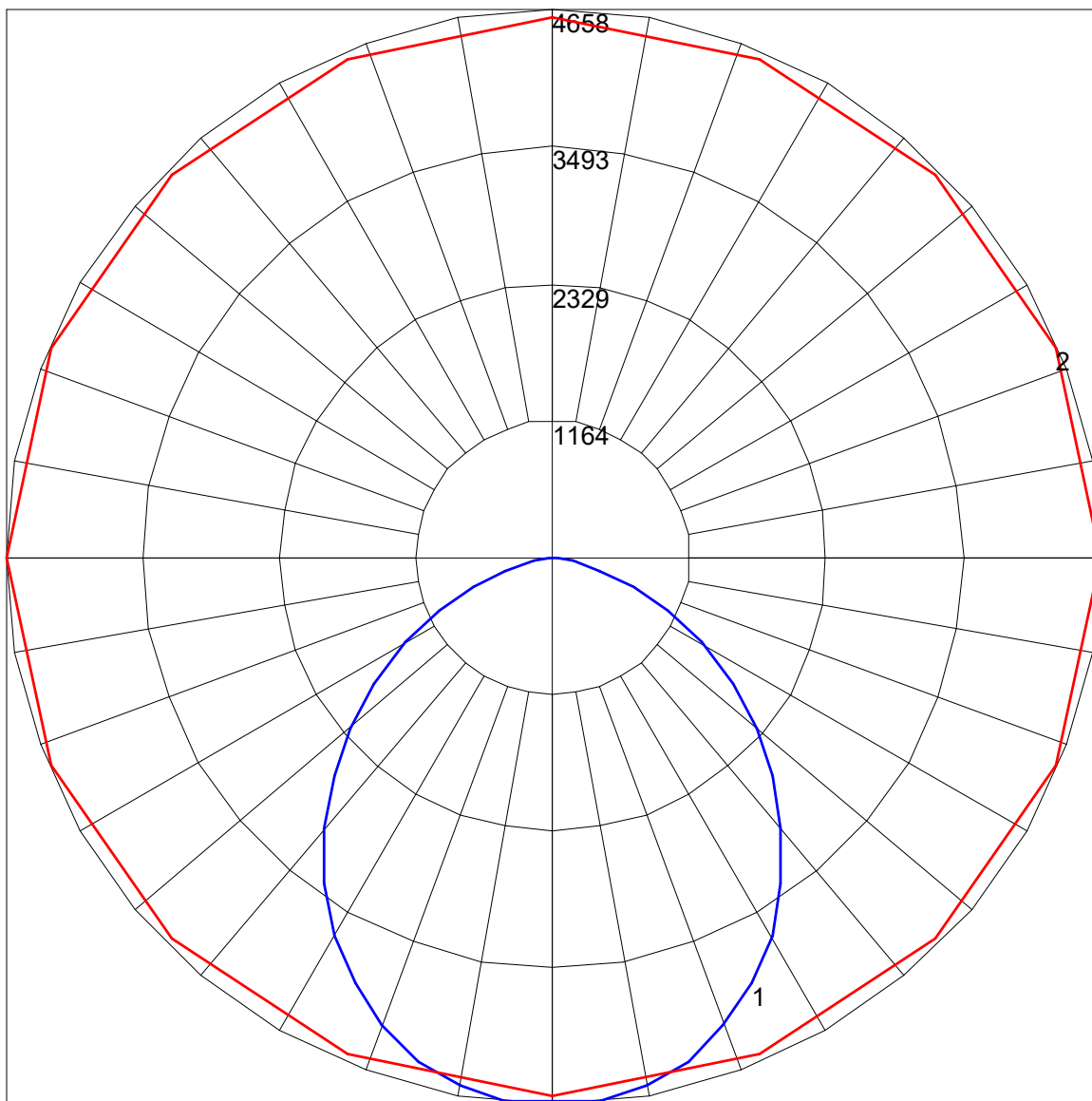
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.3	16.1	17.6	17.9	15.7	17.3	16.1	17.6	17.9
	3H	17.0	18.4	17.4	18.7	19.1	16.9	18.3	17.3	18.7	19.0
	4H	17.3	18.6	17.7	19.0	19.3	17.3	18.6	17.7	18.9	19.3
	6H	17.4	18.6	17.9	19.0	19.4	17.4	18.6	17.8	19.0	19.4
	8H	17.4	18.6	17.9	19.0	19.4	17.4	18.6	17.9	19.0	19.4
	12H	17.4	18.5	17.9	18.9	19.3	17.4	18.5	17.9	18.9	19.3
4H	2H	16.1	17.4	16.5	17.8	18.2	16.2	17.5	16.6	17.8	18.2
	3H	17.6	18.7	18.0	19.1	19.5	17.6	18.6	18.0	19.0	19.4
	4H	18.0	19.0	18.4	19.4	19.8	18.0	18.9	18.4	19.3	19.8
	6H	18.2	19.0	18.6	19.5	19.9	18.2	19.0	18.7	19.5	19.9
	8H	18.2	19.0	18.7	19.4	19.9	18.2	19.0	18.7	19.5	19.9
	12H	18.2	18.9	18.7	19.4	19.9	18.2	18.9	18.7	19.4	19.9
8H	4H	18.1	18.9	18.6	19.4	19.8	18.1	18.9	18.6	19.3	19.8
	6H	18.4	19.0	18.9	19.5	20.0	18.4	19.1	18.9	19.5	20.0
	8H	18.4	19.0	18.9	19.5	20.0	18.5	19.1	19.0	19.6	20.1
	12H	18.4	18.9	18.9	19.4	20.0	18.5	19.0	19.0	19.5	20.1
12H	4H	18.1	18.8	18.6	19.3	19.8	18.1	18.8	18.6	19.3	19.7
	6H	18.4	19.0	18.9	19.4	20.0	18.4	19.0	18.9	19.4	20.0
	8H	18.4	18.9	18.9	19.4	20.0	18.5	19.0	19.0	19.5	20.1

Maximum UGR = 20.1

POLAR GRAPH



Maximum Candela = 4657.951 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.)