



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L79-835-SAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19835.0

[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 REFLECTOR LUMINAIRE

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

[LUMCAT] MCTG-14-L79-835-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	7962
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	67.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7719	7677	7468
55	6381	6255	5904
65	4627	4572	4242
75	2755	2836	2811
85	601	830	854

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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	3468.368	3468.368	3468.368	3468.368	3468.368
5	3485.576	3463.779	3443.512	3435.482	3436.246
10	3433.570	3409.861	3396.477	3387.682	3389.211
15	3349.059	3327.262	3321.144	3302.406	3311.966
20	3226.691	3209.101	3209.866	3183.480	3194.570
25	3059.582	3049.258	3043.904	3017.518	3032.050
30	2859.205	2853.851	2835.878	2802.227	2818.670
35	2609.498	2614.851	2581.582	2528.046	2558.638
40	2311.990	2337.611	2284.075	2224.421	2261.131
45	1990.774	2019.837	1980.067	1907.794	1926.149
50	1664.970	1650.056	1655.027	1574.723	1572.429
55	1334.958	1302.837	1308.573	1234.387	1235.152
60	1008.006	985.445	979.326	912.024	923.878
65	713.176	699.027	704.763	653.522	653.904
70	466.528	452.762	469.205	448.555	438.230
75	260.032	257.355	267.680	277.240	265.386
80	110.131	106.307	120.456	137.664	123.133
85	19.120	21.414	26.386	39.005	27.150
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1264.21	N.A.	15.90
0-30	2662.01	N.A.	33.40
0-40	4269.55	N.A.	53.60
0-60	6932.77	N.A.	87.10
0-80	7913.92	N.A.	99.40
0-90	7961.59	N.A.	100.00
10-90	7633.75	N.A.	95.90
20-40	3005.34	N.A.	37.70
20-50	4517.86	N.A.	56.70
40-70	3352.24	N.A.	42.10
60-80	981.14	N.A.	12.30
70-80	292.13	N.A.	3.70
80-90	47.67	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	7961.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	327.85
10-20	936.36
20-30	1397.8
30-40	1607.55
40-50	1512.52
50-60	1150.71
60-70	689.01
70-80	292.13
80-90	47.67
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

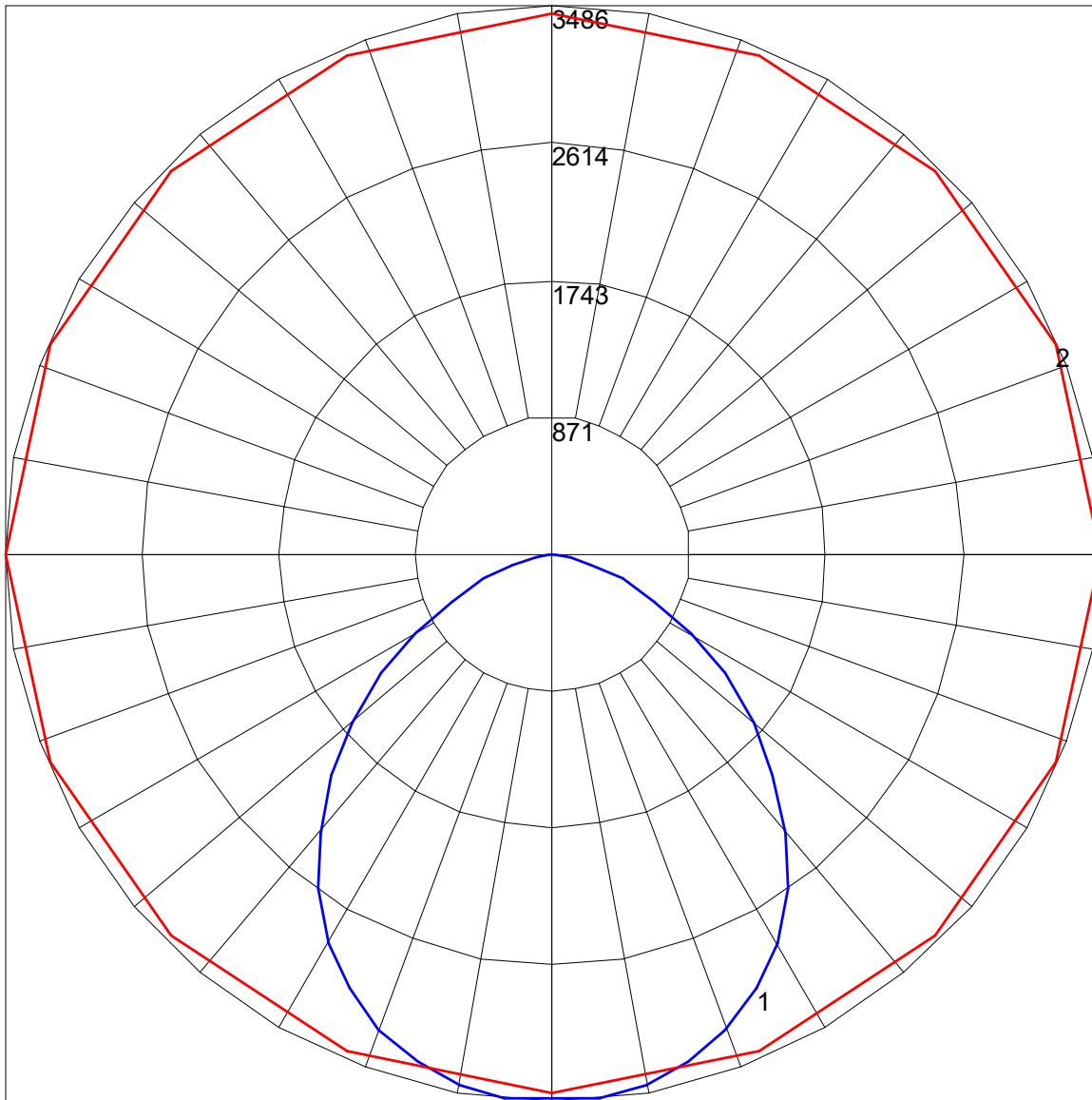
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UGR TABLE - CORRECTED

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	18.0	19.5	18.3	19.8	20.1	17.5	19.0	17.9	19.3	19.6
	3H	19.0	20.4	19.4	20.7	21.1	18.6	20.0	19.0	20.3	20.7
	4H	19.3	20.6	19.7	20.9	21.3	18.9	20.2	19.3	20.6	20.9
	6H	19.4	20.6	19.8	21.0	21.4	19.1	20.3	19.5	20.7	21.0
	8H	19.4	20.6	19.9	20.9	21.3	19.1	20.3	19.6	20.6	21.0
	12H	19.4	20.5	19.8	20.9	21.3	19.1	20.2	19.6	20.6	21.0
4H	2H	18.4	19.6	18.8	20.0	20.4	18.0	19.2	18.4	19.6	20.0
	3H	19.6	20.7	20.0	21.1	21.5	19.3	20.3	19.7	20.7	21.1
	4H	20.0	20.9	20.4	21.3	21.8	19.7	20.6	20.1	21.1	21.5
	6H	20.1	21.0	20.6	21.4	21.9	20.0	20.8	20.4	21.2	21.7
	8H	20.1	20.9	20.6	21.4	21.8	20.0	20.8	20.4	21.2	21.7
	12H	20.1	20.8	20.6	21.3	21.8	20.0	20.7	20.5	21.2	21.6
8H	4H	20.1	20.8	20.5	21.3	21.7	19.8	20.6	20.3	21.0	21.5
	6H	20.3	20.9	20.8	21.4	21.9	20.1	20.8	20.6	21.3	21.7
	8H	20.3	20.9	20.8	21.4	21.9	20.2	20.8	20.7	21.3	21.8
	12H	20.3	20.8	20.8	21.3	21.9	20.2	20.7	20.8	21.2	21.8
12H	4H	20.1	20.7	20.5	21.2	21.7	19.8	20.5	20.3	21.0	21.4
	6H	20.3	20.8	20.8	21.3	21.8	20.1	20.7	20.7	21.2	21.7
	8H	20.3	20.8	20.8	21.3	21.9	20.2	20.7	20.7	21.2	21.8

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 3485.576 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.)