

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L34-835-SAF12125-(L26)-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] 08-22-2023

[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-L34-835-SAF12125-(L26)-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	2621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	20.59
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	3938	3927	3983
55	3133	3072	3087
65	2319	2195	2192
75	1559	1338	1375
85	507	301	493

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1165.316	1165.316	1165.316	1165.316	1165.316
5	1162.294	1162.020	1161.195	1158.723	1158.723
10	1142.240	1145.537	1144.713	1143.065	1141.691
15	1111.198	1115.868	1115.319	1117.791	1115.868
20	1068.344	1073.838	1073.288	1084.002	1077.134
25	1008.732	1016.424	1022.467	1032.082	1021.643
30	934.560	948.571	955.164	959.009	950.768
35	846.928	864.784	868.081	862.587	859.565
40	750.505	758.472	759.021	755.450	760.670
45	640.622	640.347	638.973	637.875	648.039
50	527.441	519.475	521.398	517.003	525.519
55	413.437	407.668	405.471	407.668	407.394
60	309.322	303.279	303.004	307.125	306.301
65	225.536	221.690	213.449	221.141	213.174
70	151.639	151.090	137.355	149.716	137.629
75	92.852	89.280	79.666	87.907	81.863
80	42.030	41.206	34.064	37.635	39.833
85	10.164	10.988	6.044	7.692	9.890
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	424.89	N.A.	16.20
0-30	894.55	N.A.	34.10
0-40	1431.77	N.A.	54.60
0-60	2292.03	N.A.	87.50
0-80	2605.68	N.A.	99.40
0-90	2620.87	N.A.	100.00
10-90	2510.63	N.A.	95.80
20-40	1006.88	N.A.	38.40
20-50	1500.34	N.A.	57.20
40-70	1080.02	N.A.	41.20
60-80	313.65	N.A.	12.00
70-80	93.89	N.A.	3.60
80-90	15.19	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	2620.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.24
10-20	314.65
20-30	469.66
30-40	537.22
40-50	493.45
50-60	366.81
60-70	219.76
70-80	93.89
80-90	15.19
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	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

X=2H	Y=2H	15.3	16.8	15.6	17.1	17.4	UGR Viewed Endwise	15.3	16.8	15.7	17.1	17.4
	3H	16.4	17.8	16.8	18.1	18.5		16.4	17.7	16.7	18.0	18.4
	4H	16.8	18.1	17.2	18.4	18.8		16.7	17.9	17.1	18.3	18.7
	6H	17.0	18.1	17.4	18.5	18.9		16.8	18.0	17.2	18.3	18.7
	8H	17.0	18.1	17.4	18.5	18.9		16.8	17.9	17.2	18.3	18.7
	12H	17.0	18.0	17.4	18.4	18.9		16.8	17.9	17.3	18.3	18.7

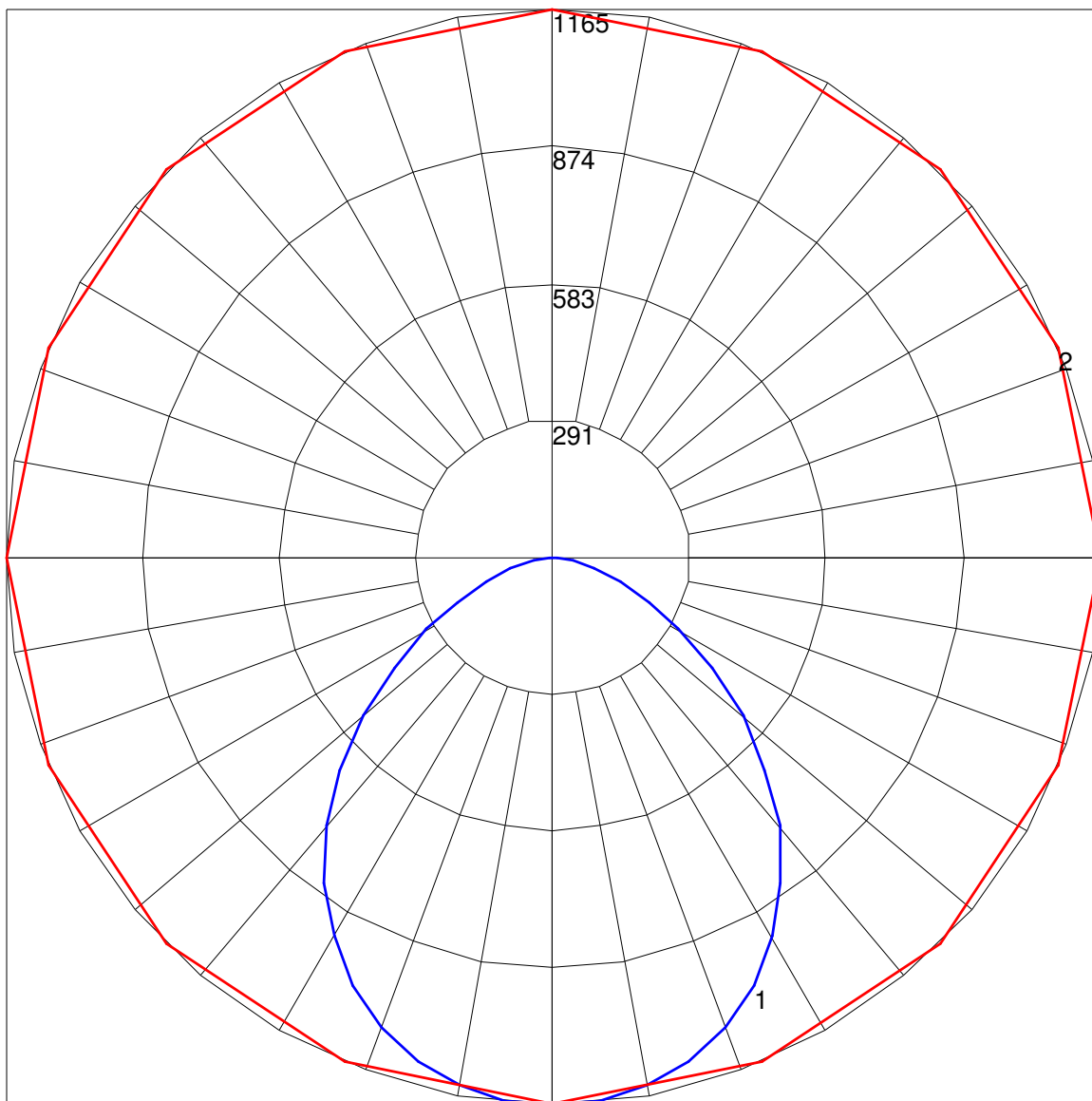
4H	2H	15.6	16.9	16.0	17.3	17.6	15.7	16.9	16.1	17.3	17.6
	3H	17.0	18.0	17.4	18.4	18.8	16.9	18.0	17.4	18.4	18.8
	4H	17.4	18.4	17.9	18.8	19.2	17.3	18.3	17.7	18.7	19.1
	6H	17.7	18.5	18.1	18.9	19.4	17.5	18.3	18.0	18.8	19.3
	8H	17.7	18.5	18.2	18.9	19.4	17.6	18.3	18.0	18.8	19.2
	12H	17.7	18.4	18.2	18.9	19.3	17.6	18.2	18.1	18.7	19.2

8H	4H	17.5	18.3	18.0	18.7	19.2	17.4	18.2	17.9	18.6	19.1
	6H	17.8	18.4	18.3	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	8H	17.9	18.4	18.4	18.9	19.4	17.7	18.3	18.2	18.8	19.3
	12H	17.9	18.4	18.4	18.9	19.5	17.7	18.2	18.2	18.7	19.3

12H	4H	17.5	18.2	18.0	18.7	19.1	17.4	18.1	17.9	18.6	19.0
	6H	17.8	18.4	18.3	18.8	19.4	17.7	18.2	18.2	18.7	19.2
	8H	17.9	18.4	18.4	18.9	19.4	17.7	18.2	18.2	18.7	19.3

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1165.316 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.)