

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-22-L34-835-SAF12125-EM10W-(L26)-DIM-UNV (EMER MODE).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-EM10W-(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	1273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	10
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	1912	1907	1934
55	1521	1492	1499
65	1126	1066	1065
75	757	650	668
85	246	146	240

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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	565.962	565.962	565.962	565.962	565.962
5	564.494	564.361	563.961	562.760	562.760
10	554.755	556.356	555.956	555.155	554.488
15	539.679	541.947	541.680	542.881	541.947
20	518.865	521.534	521.267	526.470	523.135
25	489.913	493.649	496.584	501.254	496.184
30	453.890	460.695	463.897	465.765	461.762
35	411.330	420.002	421.603	418.935	417.467
40	364.500	368.369	368.636	366.901	369.436
45	311.132	310.999	310.332	309.798	314.735
50	256.164	252.295	253.229	251.094	255.230
55	200.795	197.993	196.926	197.993	197.860
60	150.229	147.294	147.161	149.162	148.762
65	109.537	107.669	103.666	107.402	103.533
70	73.647	73.380	66.709	72.713	66.843
75	45.096	43.361	38.691	42.694	39.759
80	20.413	20.013	16.544	18.278	19.346
85	4.936	5.337	2.935	3.736	4.803
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	206.36	N.A.	16.20
0-30	434.46	N.A.	34.10
0-40	695.37	N.A.	54.60
0-60	1113.18	N.A.	87.50
0-80	1265.51	N.A.	99.40
0-90	1272.89	N.A.	100.00
10-90	1219.34	N.A.	95.80
20-40	489.02	N.A.	38.40
20-50	728.67	N.A.	57.20
40-70	524.53	N.A.	41.20
60-80	152.33	N.A.	12.00
70-80	45.60	N.A.	3.60
80-90	7.38	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	1272.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.54
10-20	152.82
20-30	228.10
30-40	260.91
40-50	239.66
50-60	178.15
60-70	106.73
70-80	45.60
80-90	7.38
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

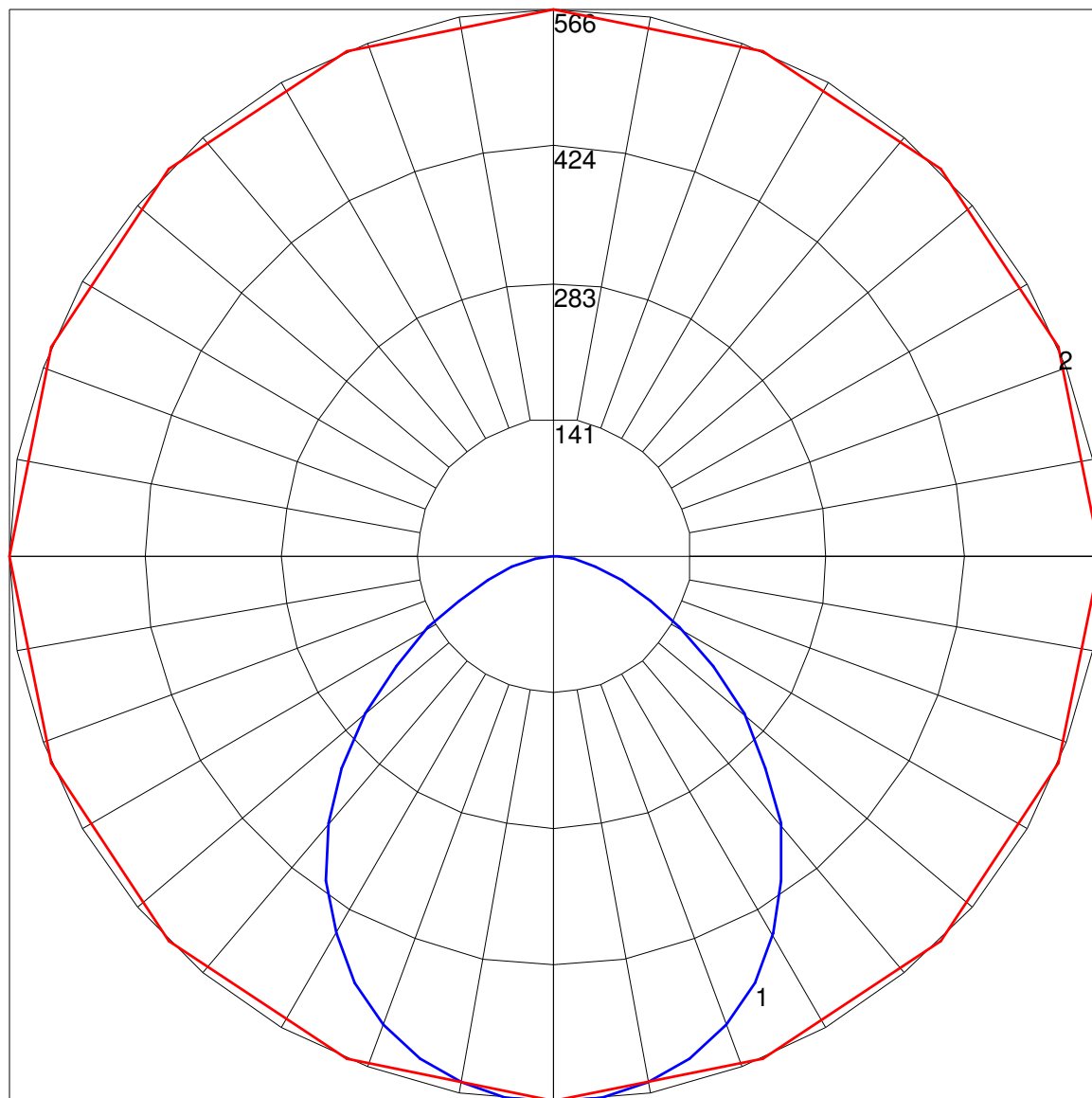
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.8	14.3	13.1	14.6	14.9	12.8	14.3	13.2	14.6	14.9
	3H	13.9	15.3	14.3	15.6	16.0	13.9	15.2	14.2	15.5	15.9
	4H	14.3	15.6	14.7	15.9	16.3	14.2	15.4	14.6	15.8	16.1
	6H	14.5	15.6	14.9	16.0	16.4	14.3	15.5	14.7	15.8	16.2
	8H	14.5	15.6	14.9	16.0	16.4	14.3	15.4	14.7	15.8	16.2
	12H	14.5	15.5	14.9	15.9	16.3	14.3	15.4	14.7	15.8	16.2
4H	2H	13.1	14.4	13.5	14.8	15.1	13.2	14.4	13.6	14.8	15.1
	3H	14.5	15.5	14.9	15.9	16.3	14.4	15.5	14.8	15.9	16.3
	4H	14.9	15.9	15.4	16.3	16.7	14.8	15.7	15.2	16.2	16.6
	6H	15.2	16.0	15.6	16.4	16.9	15.0	15.8	15.5	16.3	16.7
	8H	15.2	16.0	15.7	16.4	16.9	15.1	15.8	15.5	16.3	16.7
	12H	15.2	15.9	15.7	16.4	16.8	15.1	15.7	15.6	16.2	16.7
8H	4H	15.0	15.8	15.5	16.2	16.7	14.9	15.7	15.4	16.1	16.6
	6H	15.3	15.9	15.8	16.4	16.9	15.2	15.8	15.7	16.3	16.8
	8H	15.4	15.9	15.9	16.4	16.9	15.2	15.8	15.7	16.3	16.8
	12H	15.4	15.9	15.9	16.4	17.0	15.2	15.7	15.7	16.2	16.8
12H	4H	15.0	15.7	15.5	16.2	16.6	14.9	15.6	15.4	16.1	16.5
	6H	15.3	15.9	15.8	16.3	16.9	15.2	15.7	15.7	16.2	16.7
	8H	15.4	15.9	15.9	16.4	16.9	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.0

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POLAR GRAPH



Maximum Candela = 565.962 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.)