

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L60-835-SAF12125-(L33)-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] 08-22-2023

[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-24-L60-835-SAF12125-(L33)-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	3269
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	23.97
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)	3.57 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	2212	2200	2140
55	1828	1792	1692
65	1326	1310	1216
75	789	813	806
85	172	238	245

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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	1424.103	1424.103	1424.103	1424.103	1424.103
5	1431.169	1422.219	1413.898	1410.600	1410.914
10	1409.815	1400.081	1394.585	1390.974	1391.602
15	1375.116	1366.166	1363.654	1355.960	1359.885
20	1324.872	1317.649	1317.963	1307.129	1311.682
25	1256.257	1252.018	1249.820	1238.986	1244.952
30	1173.983	1171.784	1164.405	1150.588	1157.339
35	1071.453	1073.652	1059.991	1038.010	1050.571
40	949.298	959.817	937.836	913.342	928.415
45	817.407	829.340	813.011	783.335	790.872
50	683.632	677.509	679.550	646.578	645.635
55	548.131	534.942	537.297	506.836	507.150
60	413.885	404.621	402.109	374.475	379.342
65	292.828	287.019	289.374	268.334	268.491
70	191.555	185.903	192.654	184.176	179.936
75	106.769	105.669	109.909	113.834	108.967
80	45.220	43.649	49.459	56.525	50.558
85	7.851	8.793	10.834	16.015	11.148
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	519.08	N.A.	15.90
0-30	1093.01	N.A.	33.40
0-40	1753.07	N.A.	53.60
0-60	2846.58	N.A.	87.10
0-80	3249.44	N.A.	99.40
0-90	3269.01	N.A.	100.00
10-90	3134.4	N.A.	95.90
20-40	1233.99	N.A.	37.70
20-50	1855.02	N.A.	56.70
40-70	1376.42	N.A.	42.10
60-80	402.86	N.A.	12.30
70-80	119.95	N.A.	3.70
80-90	19.57	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	3269.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.61
10-20	384.47
20-30	573.93
30-40	660.05
40-50	621.04
50-60	472.48
60-70	282.91
70-80	119.95
80-90	19.57
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	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

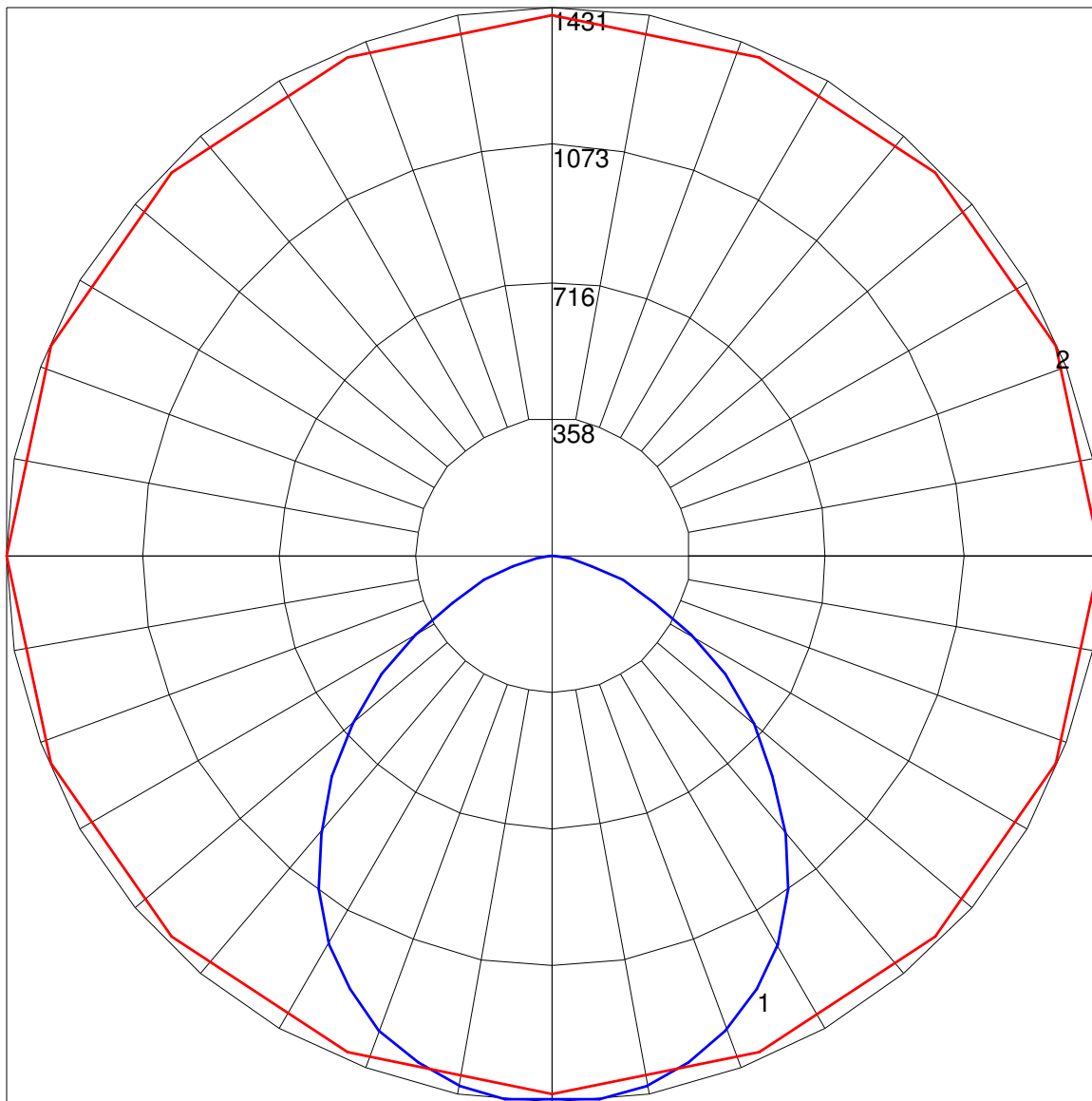
Reflectances

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	13.6	15.1	14.0	15.4	15.8	13.1	14.7	13.5	15.0	15.3
	3H	14.7	16.1	15.1	16.4	16.7	14.3	15.6	14.6	15.9	16.3
	4H	15.0	16.2	15.4	16.6	17.0	14.6	15.9	15.0	16.2	16.6
	6H	15.1	16.3	15.5	16.6	17.0	14.8	15.9	15.2	16.3	16.7
	8H	15.1	16.2	15.5	16.6	17.0	14.8	15.9	15.2	16.3	16.7
	12H	15.1	16.1	15.5	16.5	16.9	14.8	15.8	15.2	16.2	16.7
4H	2H	14.0	15.3	14.4	15.6	16.0	13.6	14.9	14.0	15.2	15.6
	3H	15.3	16.3	15.7	16.7	17.1	14.9	16.0	15.3	16.4	16.8
	4H	15.6	16.6	16.1	17.0	17.4	15.4	16.3	15.8	16.7	17.1
	6H	15.8	16.6	16.3	17.0	17.5	15.6	16.4	16.1	16.9	17.3
	8H	15.8	16.6	16.3	17.0	17.5	15.6	16.4	16.1	16.8	17.3
	12H	15.8	16.5	16.3	16.9	17.4	15.6	16.3	16.1	16.8	17.3
8H	4H	15.7	16.5	16.2	16.9	17.4	15.5	16.2	15.9	16.7	17.1
	6H	15.9	16.6	16.4	17.0	17.5	15.8	16.4	16.3	16.9	17.4
	8H	16.0	16.5	16.5	17.0	17.5	15.9	16.4	16.4	16.9	17.4
	12H	16.0	16.4	16.5	16.9	17.5	15.9	16.4	16.4	16.9	17.4
12H	4H	15.7	16.4	16.2	16.9	17.3	15.5	16.1	15.9	16.6	17.1
	6H	15.9	16.5	16.5	17.0	17.5	15.8	16.3	16.3	16.8	17.3
	8H	16.0	16.5	16.5	17.0	17.5	15.9	16.4	16.4	16.9	17.4

Maximum UGR = 17.5

POLAR GRAPH



Maximum Candela = 1431.169 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.)