



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L60-830-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] 08-02-2021

[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-L60-830-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	6017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	46.7
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	4071	4049	3939
55	3366	3299	3114
65	2440	2411	2237
75	1453	1496	1483
85	317	438	450

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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	2621.239	2621.239	2621.239	2621.239	2621.239
5	2634.244	2617.771	2602.454	2596.385	2596.963
10	2594.940	2577.022	2566.907	2560.260	2561.416
15	2531.071	2514.598	2509.974	2495.813	2503.038
20	2438.590	2425.296	2425.874	2405.933	2414.314
25	2312.297	2304.494	2300.448	2280.507	2291.489
30	2160.860	2156.814	2143.231	2117.799	2130.226
35	1972.143	1976.189	1951.046	1910.586	1933.706
40	1747.300	1766.663	1726.203	1681.119	1708.863
45	1504.539	1526.503	1496.447	1441.826	1455.698
50	1258.310	1247.039	1250.796	1190.106	1188.372
55	1008.902	984.626	988.961	932.895	933.473
60	761.807	744.756	740.132	689.267	698.226
65	538.987	528.294	532.629	493.903	494.192
70	352.581	342.177	354.604	338.998	331.195
75	196.521	194.498	202.301	209.526	200.567
80	83.232	80.342	91.035	104.040	93.058
85	14.450	16.184	19.941	29.478	20.519
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	955.43	N.A.	15.90
0-30	2011.83	N.A.	33.40
0-40	3226.74	N.A.	53.60
0-60	5239.48	N.A.	87.10
0-80	5980.99	N.A.	99.40
0-90	6017.02	N.A.	100.00
10-90	5769.25	N.A.	95.90
20-40	2271.31	N.A.	37.70
20-50	3414.4	N.A.	56.70
40-70	2533.47	N.A.	42.10
60-80	741.51	N.A.	12.30
70-80	220.78	N.A.	3.70
80-90	36.03	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	6017.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.77
10-20	707.66
20-30	1056.39
30-40	1214.91
40-50	1143.09
50-60	869.65
60-70	520.73
70-80	220.78
80-90	36.03
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

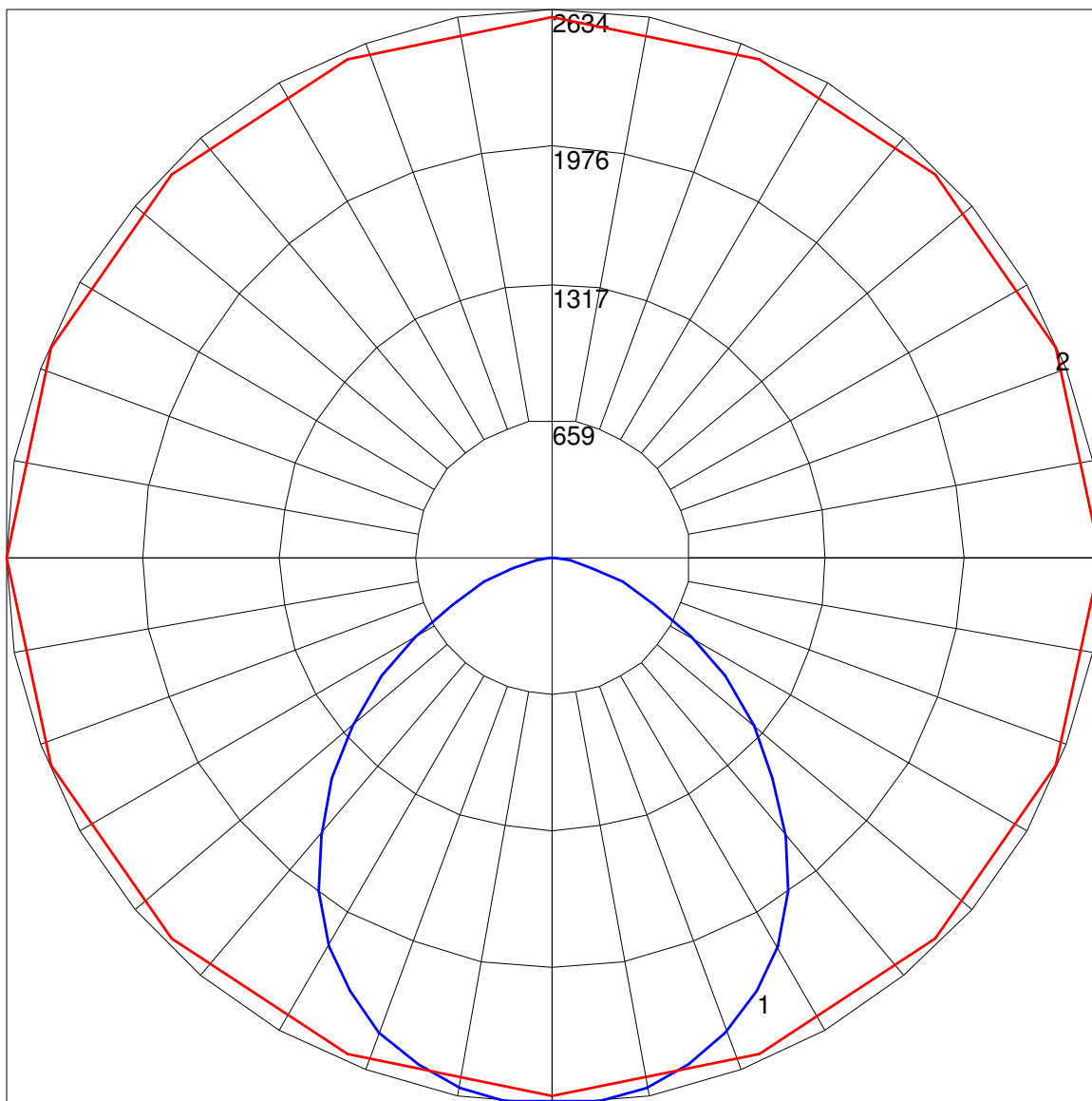
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UGR TABLE - CORRECTED

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	15.7	17.2	16.1	17.5	17.9	15.2	16.8	15.6	17.1	17.4
	3H	16.8	18.2	17.2	18.5	18.8	16.4	17.7	16.7	18.0	18.4
	4H	17.1	18.3	17.5	18.7	19.1	16.7	18.0	17.1	18.3	18.7
	6H	17.2	18.4	17.6	18.7	19.1	16.9	18.0	17.3	18.4	18.8
	8H	17.2	18.3	17.6	18.7	19.1	16.9	18.0	17.3	18.4	18.8
	12H	17.2	18.2	17.6	18.6	19.0	16.9	17.9	17.3	18.3	18.8
4H	2H	16.1	17.4	16.5	17.7	18.1	15.7	17.0	16.1	17.3	17.7
	3H	17.4	18.4	17.8	18.8	19.2	17.0	18.1	17.4	18.5	18.9
	4H	17.7	18.7	18.2	19.1	19.5	17.5	18.4	17.9	18.8	19.2
	6H	17.9	18.7	18.4	19.1	19.6	17.7	18.5	18.2	19.0	19.4
	8H	17.9	18.7	18.3	19.1	19.6	17.7	18.5	18.2	18.9	19.4
	12H	17.9	18.6	18.4	19.0	19.5	17.7	18.4	18.2	18.9	19.4
8H	4H	17.8	18.6	18.3	19.0	19.5	17.6	18.3	18.0	18.8	19.2
	6H	18.0	18.7	18.5	19.1	19.6	17.9	18.5	18.4	19.0	19.5
	8H	18.1	18.6	18.6	19.1	19.6	18.0	18.5	18.5	19.0	19.5
	12H	18.1	18.5	18.6	19.0	19.6	18.0	18.5	18.5	19.0	19.5
12H	4H	17.8	18.5	18.3	19.0	19.4	17.6	18.2	18.0	18.7	19.2
	6H	18.0	18.6	18.6	19.1	19.6	17.9	18.4	18.4	18.9	19.4
	8H	18.1	18.6	18.6	19.1	19.6	18.0	18.5	18.5	19.0	19.5

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 2634.244 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.)