IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-830-CS-SAF12125-PC250-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] 2026-05-06
[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] MCTVG-24-L120-830-CS-SAF12125-PC250-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	11880
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	101.8
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	8038	7995	7777
55	6645	6514	6148
65	4818	4761	4418
75	2868	2953	2928
85	626	864	889

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5175.389	5175.389	5175.389	5175.389	5175.389
5	5201.067	5168.542	5138.300	5126.317	5127.458
10	5123.464	5088.087	5068.116	5054.992	5057.274
15	4997.361	4964.836	4955.706	4927.747	4942.012
20	4814.767	4788.519	4789.660	4750.288	4766.836
25	4565.412	4550.006	4542.018	4502.646	4524.329
30	4266.415	4258.427	4231.608	4181.395	4205.931
35	3893.810	3901.798	3852.156	3772.271	3817.920
40	3449.879	3488.110	3408.225	3319.211	3373.989
45	2970.571	3013.937	2954.594	2846.749	2874.138
50	2484.415	2462.162	2469.579	2349.752	2346.329
55	1991.983	1944.052	1952.611	1841.914	1843.055
60	1504.115	1470.450	1461.320	1360.893	1378.582
65	1064.179	1043.066	1051.625	975.164	975.735
70	696.138	675.597	700.133	669.320	653.914
75	388.012	384.017	399.424	413.689	396.000
80	164.334	158.628	179.741	205.418	183.735
85	28.530	31.954	39.372	58.202	40.513
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1886.41	N.A.	15.90
0-30	3972.16	N.A.	33.40
0-40	6370.89	N.A.	53.60
0-60	10344.87	N.A.	87.10
0-80	11808.9	N.A.	99.40
0-90	11880.04	N.A.	100.00
10-90	11390.84	N.A.	95.90
20-40	4484.48	N.A.	37.70
20-50	6741.41	N.A.	56.70
40-70	5002.1	N.A.	42.10
60-80	1464.03	N.A.	12.30
70-80	435.91	N.A.	3.70
80-90	71.14	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	11880.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	489.20
10-20	1397.21
20-30	2085.75
30-40	2398.73
40-50	2256.93
50-60	1717.05
60-70	1028.12
70-80	435.91
80-90	71.14
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

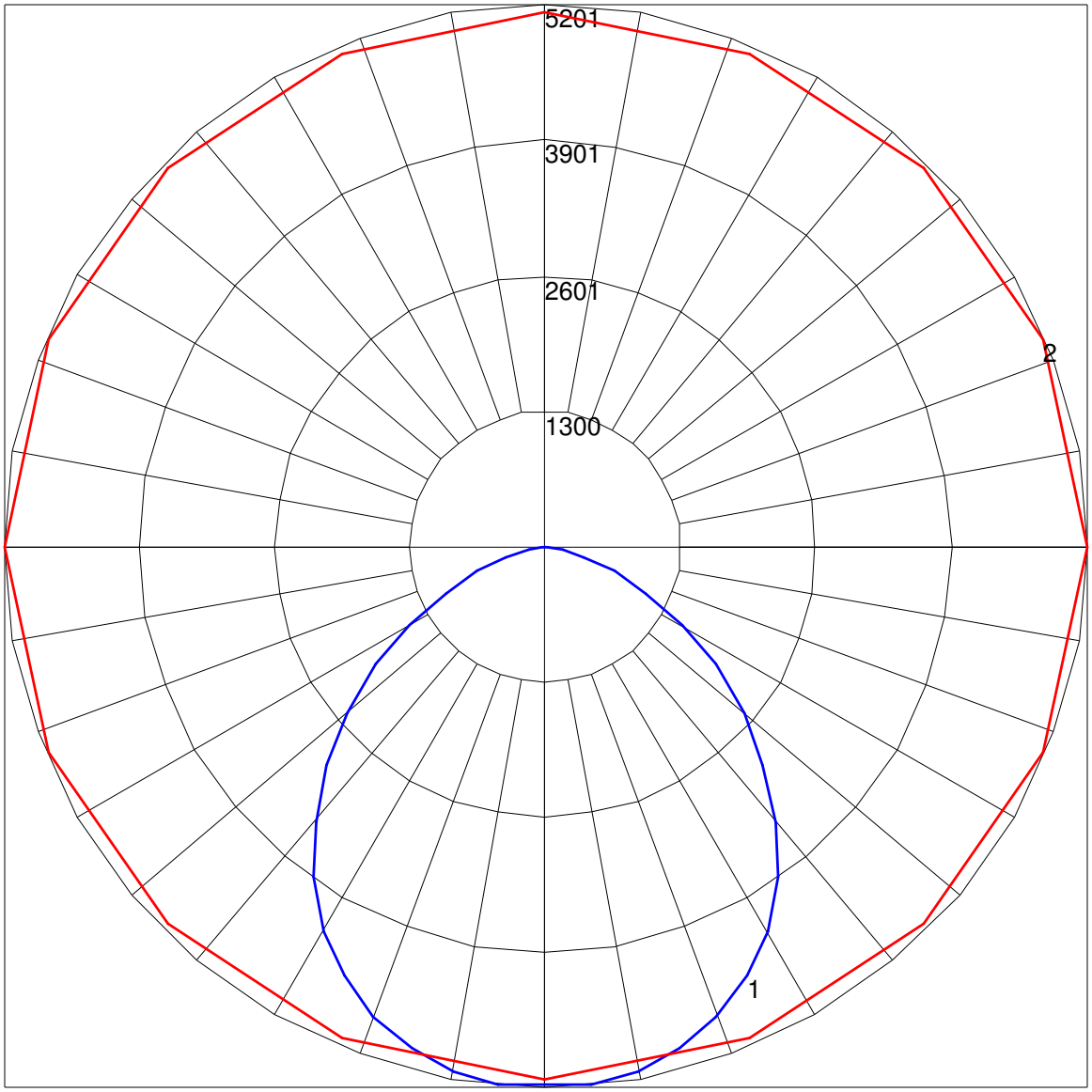
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.1	19.6	18.5	19.9	20.3	17.6	19.2	18.0	19.5	19.8
	3H	19.2	20.6	19.6	20.9	21.2	18.8	20.1	19.1	20.4	20.8
	4H	19.5	20.7	19.9	21.1	21.5	19.1	20.4	19.5	20.7	21.1
	6H	19.6	20.8	20.0	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	8H	19.6	20.7	20.0	21.1	21.5	19.3	20.4	19.7	20.8	21.2
	12H	19.6	20.6	20.0	21.0	21.4	19.3	20.3	19.7	20.7	21.2
4H	2H	18.5	19.8	18.9	20.1	20.5	18.1	19.4	18.5	19.7	20.1
	3H	19.8	20.8	20.2	21.2	21.6	19.4	20.5	19.8	20.9	21.3
	4H	20.1	21.1	20.6	21.5	21.9	19.9	20.8	20.3	21.2	21.6
	6H	20.3	21.1	20.8	21.5	22.0	20.1	20.9	20.6	21.4	21.8
	8H	20.3	21.1	20.8	21.5	22.0	20.1	20.9	20.6	21.3	21.8
	12H	20.3	21.0	20.8	21.4	21.9	20.1	20.8	20.6	21.3	21.8
8H	4H	20.2	21.0	20.7	21.4	21.9	20.0	20.7	20.4	21.2	21.6
	6H	20.4	21.1	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	8H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9
	12H	20.5	20.9	21.0	21.4	22.0	20.4	20.9	20.9	21.4	21.9
12H	4H	20.2	20.9	20.7	21.4	21.8	20.0	20.6	20.4	21.1	21.6
	6H	20.4	21.0	21.0	21.5	22.0	20.3	20.8	20.8	21.3	21.8
	8H	20.5	21.0	21.0	21.5	22.0	20.4	20.9	20.9	21.4	21.9

Maximum UGR = 22.0

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POLAR GRAPH



Maximum Candela = 5201.067 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.)

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