IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-840-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-L60-840-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	6201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	48.9
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	4195	4173	4059
55	3468	3400	3209
65	2515	2485	2306
75	1497	1541	1528
85	327	451	464

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2701.222	2701.222	2701.222	2701.222	2701.222
5	2714.624	2697.648	2681.864	2675.610	2676.205
10	2674.120	2655.656	2645.232	2638.382	2639.573
15	2608.302	2591.327	2586.562	2571.968	2579.414
20	2513.000	2499.300	2499.896	2479.347	2487.983
25	2382.853	2374.812	2370.642	2350.093	2361.410
30	2226.796	2222.626	2208.629	2182.421	2195.227
35	2032.320	2036.489	2010.579	1968.884	1992.710
40	1800.616	1820.570	1778.875	1732.415	1761.006
45	1550.448	1573.082	1542.109	1485.821	1500.116
50	1296.706	1285.091	1288.962	1226.420	1224.633
55	1039.688	1014.671	1019.138	961.361	961.957
60	785.052	767.481	762.715	710.299	719.532
65	555.433	544.414	548.881	508.973	509.271
70	363.340	352.618	365.424	349.342	341.301
75	202.517	200.432	208.474	215.919	206.687
80	85.772	82.794	93.813	107.215	95.898
85	14.891	16.678	20.550	30.378	21.145
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	984.59	N.A.	15.90
0-30	2073.21	N.A.	33.40
0-40	3325.2	N.A.	53.60
0-60	5399.36	N.A.	87.10
0-80	6163.49	N.A.	99.40
0-90	6200.62	N.A.	100.00
10-90	5945.29	N.A.	95.90
20-40	2340.61	N.A.	37.70
20-50	3518.58	N.A.	56.70
40-70	2610.78	N.A.	42.10
60-80	764.13	N.A.	12.30
70-80	227.52	N.A.	3.70
80-90	37.13	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	6200.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.33
10-20	729.25
20-30	1088.63
30-40	1251.98
40-50	1177.97
50-60	896.19
60-70	536.62
70-80	227.52
80-90	37.13
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

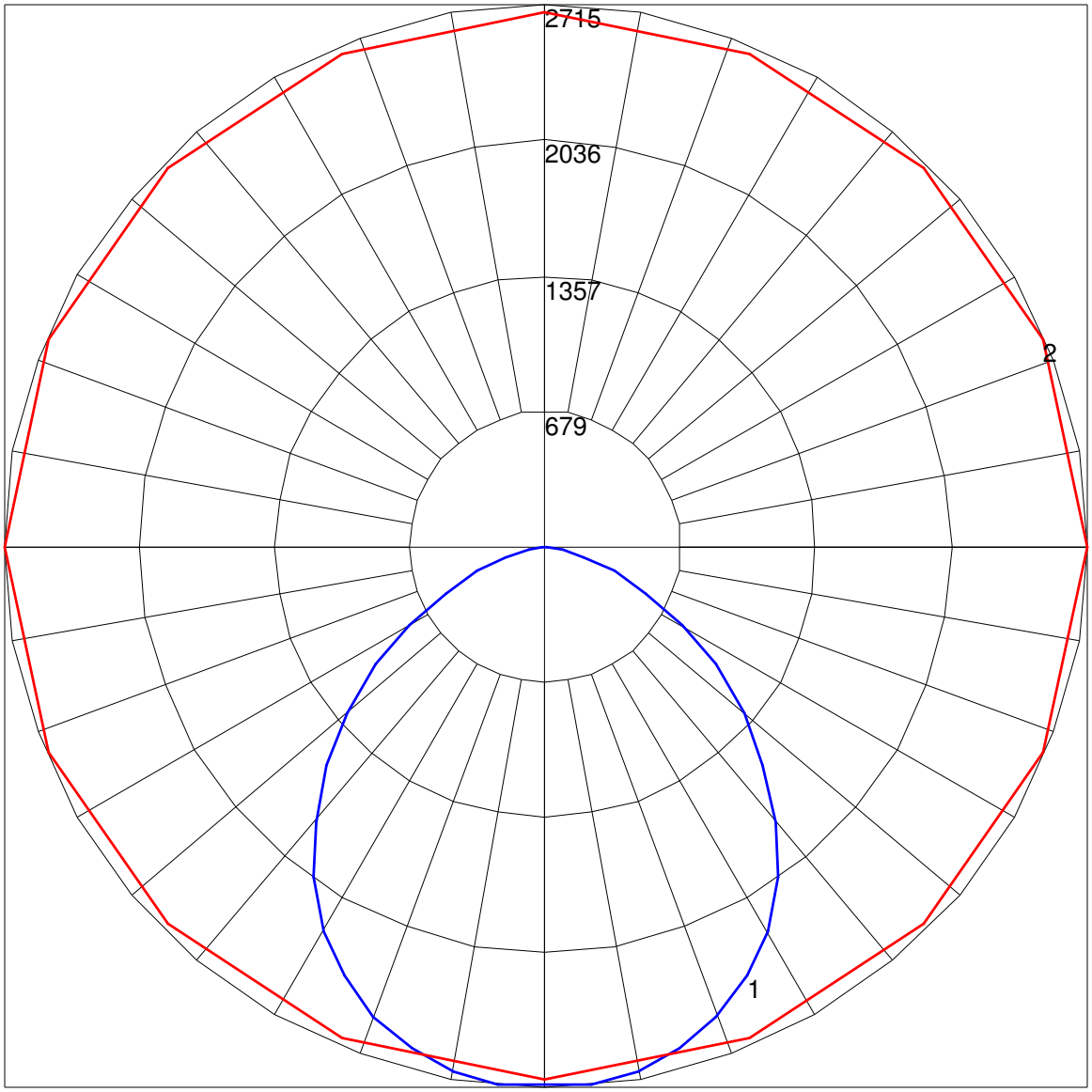
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.8	17.3	16.2	17.6	18.0	15.3	16.9	15.7	17.2	17.5
	3H	16.9	18.3	17.3	18.6	18.9	16.5	17.8	16.8	18.1	18.5
	4H	17.2	18.4	17.6	18.8	19.2	16.8	18.1	17.2	18.4	18.8
	6H	17.3	18.5	17.7	18.8	19.2	17.0	18.1	17.4	18.5	18.9
	8H	17.3	18.4	17.7	18.8	19.2	17.0	18.1	17.4	18.5	18.9
	12H	17.3	18.3	17.7	18.7	19.1	17.0	18.0	17.4	18.4	18.9
4H	2H	16.2	17.5	16.6	17.8	18.2	15.8	17.1	16.2	17.4	17.8
	3H	17.5	18.5	17.9	18.9	19.3	17.1	18.2	17.5	18.6	19.0
	4H	17.8	18.8	18.3	19.2	19.6	17.6	18.5	18.0	18.9	19.3
	6H	18.0	18.8	18.5	19.2	19.7	17.8	18.6	18.3	19.1	19.5
	8H	18.0	18.8	18.5	19.2	19.7	17.8	18.6	18.3	19.0	19.5
	12H	18.0	18.7	18.5	19.1	19.6	17.8	18.5	18.3	19.0	19.5
8H	4H	17.9	18.7	18.4	19.1	19.6	17.7	18.4	18.1	18.9	19.3
	6H	18.1	18.8	18.6	19.2	19.7	18.0	18.6	18.5	19.1	19.6
	8H	18.2	18.7	18.7	19.2	19.7	18.1	18.6	18.6	19.1	19.6
	12H	18.2	18.6	18.7	19.1	19.7	18.1	18.6	18.6	19.1	19.6
12H	4H	17.9	18.6	18.4	19.1	19.5	17.7	18.3	18.1	18.8	19.3
	6H	18.1	18.7	18.7	19.2	19.7	18.0	18.5	18.5	19.0	19.5
	8H	18.2	18.7	18.7	19.2	19.7	18.1	18.6	18.6	19.1	19.6

Maximum UGR = 19.7

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POLAR GRAPH



Maximum Candela = 2714.624 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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