IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-835-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-L60-835-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	6020
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	4073	4051	3941
55	3367	3301	3116
65	2441	2413	2239
75	1454	1496	1483
85	317	438	451

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2622.546	2622.546	2622.546	2622.546	2622.546
5	2635.558	2619.076	2603.752	2597.680	2598.258
10	2596.234	2578.307	2568.187	2561.537	2562.693
15	2532.333	2515.852	2511.225	2497.057	2504.286
20	2439.806	2426.506	2427.084	2407.133	2415.518
25	2313.450	2305.643	2301.595	2281.644	2292.632
30	2161.938	2157.890	2144.300	2118.855	2131.289
35	1973.126	1977.174	1952.019	1911.538	1934.670
40	1748.171	1767.544	1727.064	1681.957	1709.715
45	1505.289	1527.264	1497.193	1442.545	1456.424
50	1258.938	1247.661	1251.420	1190.700	1188.965
55	1009.406	985.117	989.455	933.360	933.939
60	762.187	745.127	740.501	689.611	698.575
65	539.256	528.557	532.894	494.149	494.438
70	352.757	342.348	354.781	339.167	331.360
75	196.619	194.595	202.402	209.630	200.667
80	83.274	80.382	91.081	104.092	93.105
85	14.457	16.192	19.951	29.493	20.529
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	955.91	N.A.	15.90
0-30	2012.83	N.A.	33.40
0-40	3228.35	N.A.	53.60
0-60	5242.1	N.A.	87.10
0-80	5983.97	N.A.	99.40
0-90	6020.02	N.A.	100.00
10-90	5772.12	N.A.	95.90
20-40	2272.44	N.A.	37.70
20-50	3416.1	N.A.	56.70
40-70	2534.74	N.A.	42.10
60-80	741.88	N.A.	12.30
70-80	220.89	N.A.	3.70
80-90	36.05	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	6020.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.89
10-20	708.01
20-30	1056.92
30-40	1215.52
40-50	1143.66
50-60	870.09
60-70	520.99
70-80	220.89
80-90	36.05
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

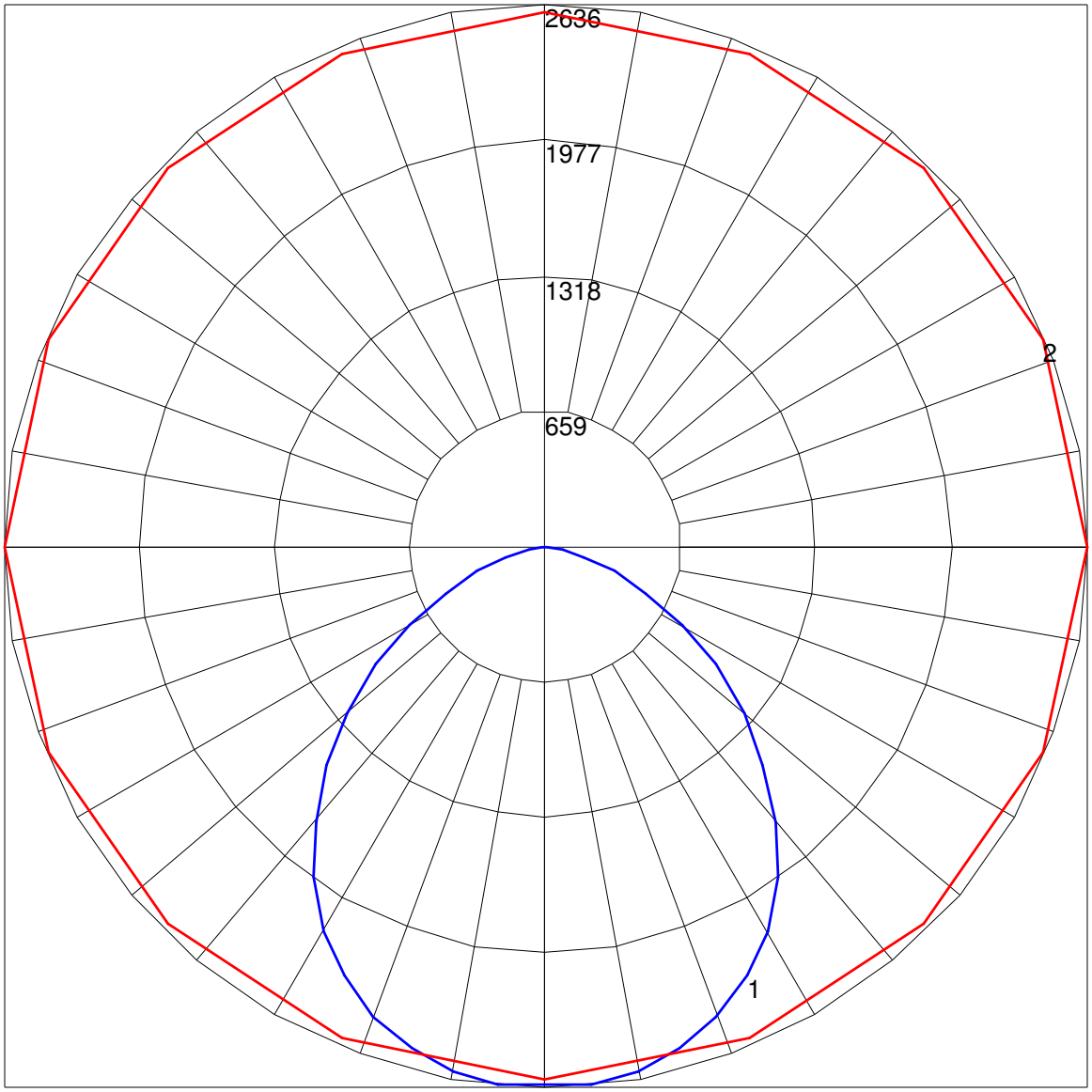
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.2	16.1	17.5	17.9	15.2	16.8	15.6	17.1	17.4
	3H	16.8	18.2	17.2	18.5	18.8	16.4	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

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POLAR GRAPH



Maximum Candela = 2635.558 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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