IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-950-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-L60-950-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	5418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	3666	3646	3547
55	3031	2971	2804
65	2197	2171	2015
75	1308	1347	1335
85	286	394	406

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2360.291	2360.291	2360.291	2360.291	2360.291
5	2372.001	2357.168	2343.376	2337.911	2338.431
10	2336.610	2320.475	2311.367	2305.382	2306.423
15	2279.099	2264.266	2260.102	2247.351	2253.856
20	2195.825	2183.854	2184.375	2166.419	2173.966
25	2082.104	2075.078	2071.435	2053.479	2063.368
30	1945.744	1942.100	1929.869	1906.969	1918.159
35	1775.813	1779.456	1756.816	1720.384	1741.202
40	1573.354	1590.789	1554.357	1513.761	1538.743
45	1354.760	1374.538	1347.474	1298.290	1310.781
50	1133.044	1122.895	1126.278	1071.629	1070.068
55	908.465	886.605	890.509	840.024	840.545
60	685.968	670.614	666.450	620.650	628.717
65	485.330	475.701	479.605	444.734	444.994
70	317.481	308.113	319.303	305.250	298.224
75	176.957	175.135	182.161	188.667	180.600
80	74.946	72.344	81.973	93.683	83.794
85	13.012	14.573	17.956	26.544	18.476
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	860.32	N.A.	15.90
0-30	1811.55	N.A.	33.40
0-40	2905.51	N.A.	53.60
0-60	4717.89	N.A.	87.10
0-80	5385.57	N.A.	99.40
0-90	5418.02	N.A.	100.00
10-90	5194.91	N.A.	95.90
20-40	2045.19	N.A.	37.70
20-50	3074.49	N.A.	56.70
40-70	2281.26	N.A.	42.10
60-80	667.69	N.A.	12.30
70-80	198.80	N.A.	3.70
80-90	32.44	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	5418.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.11
10-20	637.21
20-30	951.23
30-40	1093.97
40-50	1029.3
50-60	783.08
60-70	468.89
70-80	198.80
80-90	32.44
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

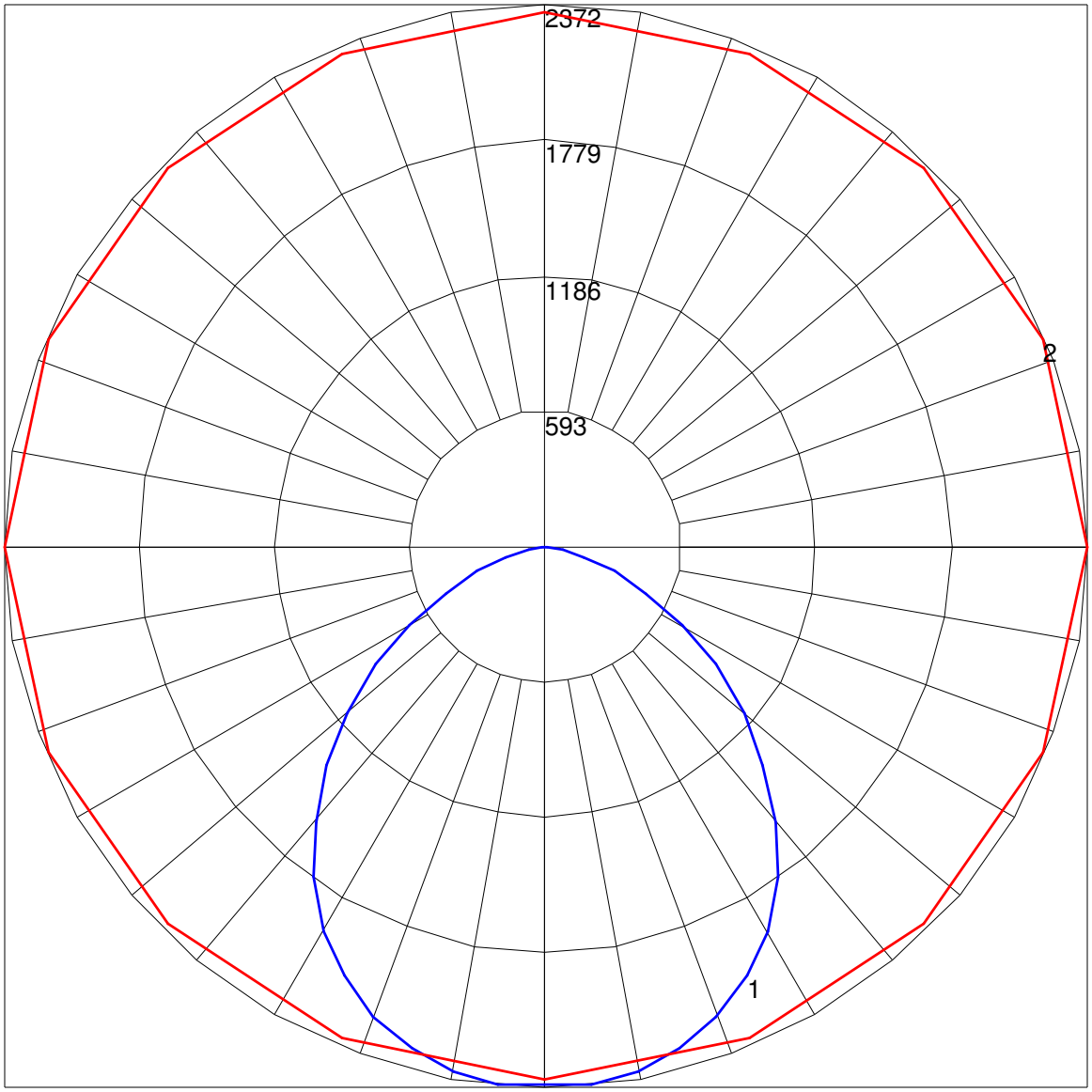
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.9	15.8	17.2	17.6	14.9	16.5	15.3	16.8	17.1
	3H	16.5	17.9	16.9	18.2	18.5	16.1	17.4	16.4	17.7	18.1
	4H	16.8	18.0	17.2	18.4	18.8	16.4	17.7	16.8	18.0	18.4
	6H	16.9	18.1	17.3	18.4	18.8	16.6	17.7	17.0	18.1	18.5
	8H	16.9	18.0	17.3	18.4	18.8	16.6	17.7	17.0	18.1	18.5
	12H	16.9	17.9	17.3	18.3	18.7	16.6	17.6	17.0	18.0	18.5
4H	2H	15.8	17.1	16.2	17.4	17.8	15.4	16.7	15.8	17.0	17.4
	3H	17.1	18.1	17.5	18.5	18.9	16.7	17.8	17.1	18.2	18.6
	4H	17.4	18.4	17.9	18.8	19.2	17.2	18.1	17.6	18.5	18.9
	6H	17.6	18.4	18.1	18.8	19.3	17.4	18.2	17.9	18.7	19.1
	8H	17.6	18.4	18.1	18.8	19.3	17.4	18.2	17.9	18.6	19.1
	12H	17.6	18.3	18.1	18.7	19.2	17.4	18.1	17.9	18.6	19.1
8H	4H	17.5	18.3	18.0	18.7	19.2	17.3	18.0	17.7	18.5	18.9
	6H	17.7	18.4	18.2	18.8	19.3	17.6	18.2	18.1	18.7	19.2
	8H	17.8	18.3	18.3	18.8	19.3	17.7	18.2	18.2	18.7	19.2
	12H	17.8	18.2	18.3	18.7	19.3	17.7	18.2	18.2	18.7	19.2
12H	4H	17.5	18.2	18.0	18.7	19.1	17.3	17.9	17.7	18.4	18.9
	6H	17.7	18.3	18.3	18.8	19.3	17.6	18.1	18.1	18.6	19.1
	8H	17.8	18.3	18.3	18.8	19.3	17.7	18.2	18.2	18.7	19.2

Maximum UGR = 19.3

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POLAR GRAPH



Maximum Candela = 2372.001 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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