IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-927-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-L60-927-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	4816
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	3259	3241	3153
55	2694	2641	2492
65	1953	1930	1791
75	1163	1197	1187
85	254	350	361

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2098.036	2098.036	2098.036	2098.036	2098.036
5	2108.445	2095.260	2083.001	2078.143	2078.606
10	2076.986	2062.645	2054.549	2049.228	2050.154
15	2025.866	2012.681	2008.979	1997.645	2003.428
20	1951.844	1941.204	1941.667	1925.706	1932.414
25	1850.759	1844.514	1841.275	1825.315	1834.105
30	1729.550	1726.311	1715.439	1695.084	1705.030
35	1578.500	1581.739	1561.614	1529.230	1547.735
40	1398.537	1414.035	1381.650	1345.565	1367.772
45	1204.231	1221.811	1197.754	1154.036	1165.139
50	1007.150	998.129	1001.136	952.559	951.171
55	807.524	788.094	791.563	746.688	747.151
60	609.749	596.101	592.400	551.689	558.859
65	431.404	422.846	426.315	395.319	395.550
70	282.206	273.878	283.825	271.334	265.088
75	157.295	155.676	161.921	167.704	160.533
80	66.619	64.306	72.865	83.274	74.484
85	11.566	12.954	15.961	23.594	16.423
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	764.73	N.A.	15.90
0-30	1610.26	N.A.	33.40
0-40	2582.68	N.A.	53.60
0-60	4193.68	N.A.	87.10
0-80	4787.18	N.A.	99.40
0-90	4816.01	N.A.	100.00
10-90	4617.7	N.A.	95.90
20-40	1817.95	N.A.	37.70
20-50	2732.88	N.A.	56.70
40-70	2027.79	N.A.	42.10
60-80	593.50	N.A.	12.30
70-80	176.71	N.A.	3.70
80-90	28.84	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	4816.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.32
10-20	566.41
20-30	845.54
30-40	972.41
40-50	914.93
50-60	696.07
60-70	416.79
70-80	176.71
80-90	28.84
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

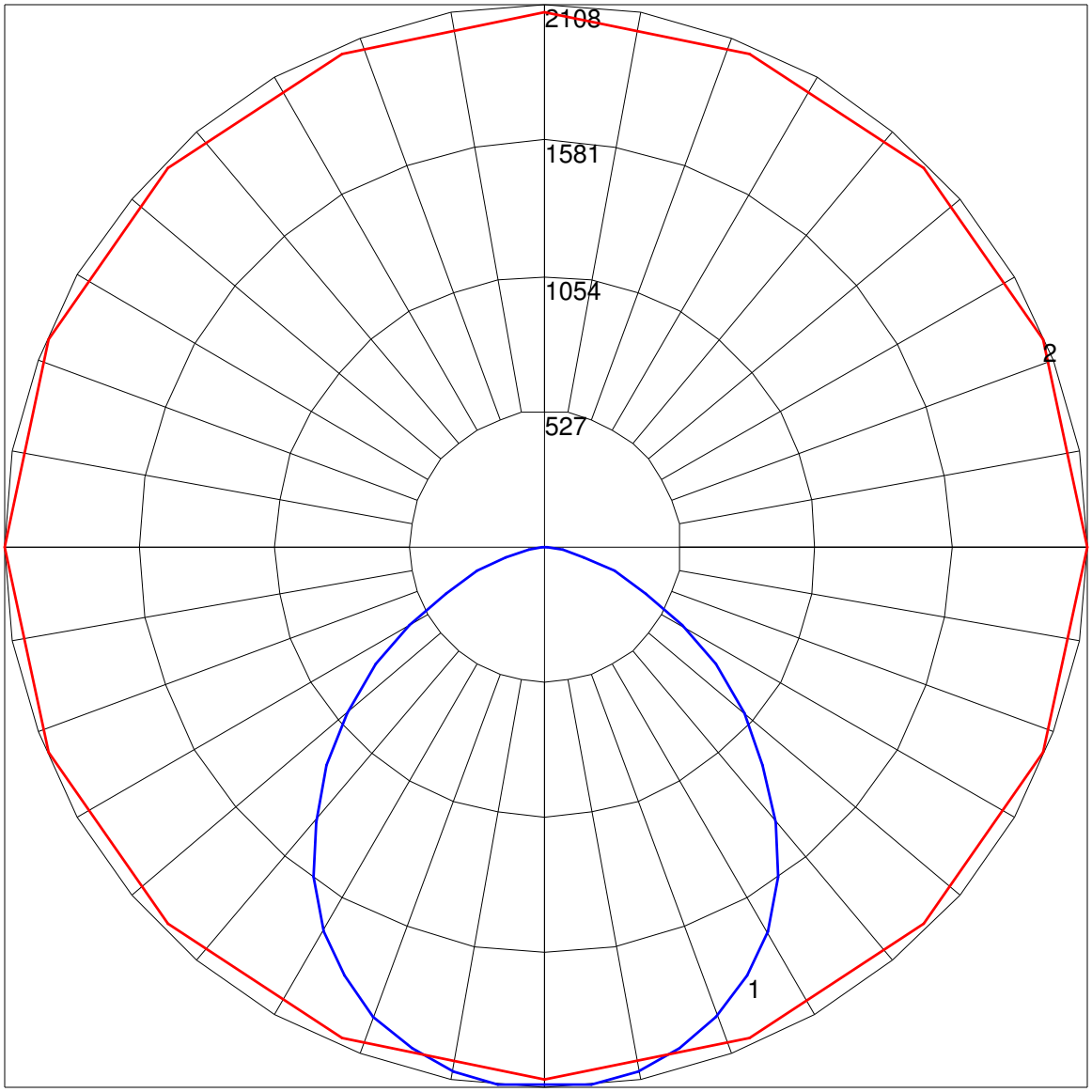
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.0	16.5	15.4	16.8	17.2	14.5	16.1	14.9	16.4	16.7
	3H	16.1	17.5	16.5	17.8	18.1	15.7	17.0	16.0	17.3	17.7
	4H	16.4	17.6	16.8	18.0	18.4	16.0	17.3	16.4	17.6	18.0
	6H	16.5	17.7	16.9	18.0	18.4	16.2	17.3	16.6	17.7	18.1
	8H	16.5	17.6	16.9	18.0	18.4	16.2	17.3	16.6	17.7	18.1
	12H	16.5	17.5	16.9	17.9	18.3	16.2	17.2	16.6	17.6	18.1
4H	2H	15.4	16.7	15.8	17.0	17.4	15.0	16.3	15.4	16.6	17.0
	3H	16.7	17.7	17.1	18.1	18.5	16.3	17.4	16.7	17.8	18.2
	4H	17.0	18.0	17.5	18.4	18.8	16.8	17.7	17.2	18.1	18.5
	6H	17.2	18.0	17.7	18.4	18.9	17.0	17.8	17.5	18.3	18.7
	8H	17.2	18.0	17.7	18.4	18.9	17.0	17.8	17.5	18.2	18.7
	12H	17.2	17.9	17.7	18.3	18.8	17.0	17.7	17.5	18.2	18.7
8H	4H	17.1	17.9	17.6	18.3	18.8	16.9	17.6	17.3	18.1	18.5
	6H	17.3	18.0	17.8	18.4	18.9	17.2	17.8	17.7	18.3	18.8
	8H	17.4	17.9	17.9	18.4	18.9	17.3	17.8	17.8	18.3	18.8
	12H	17.4	17.8	17.9	18.3	18.9	17.3	17.8	17.8	18.3	18.8
12H	4H	17.1	17.8	17.6	18.3	18.7	16.9	17.5	17.3	18.0	18.5
	6H	17.3	17.9	17.9	18.4	18.9	17.2	17.7	17.7	18.2	18.7
	8H	17.4	17.9	17.9	18.4	18.9	17.3	17.8	17.8	18.3	18.8

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 2108.445 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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