IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-930-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19833.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-930-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	5417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	58.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 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	8139	8118	8233
55	6475	6350	6380
65	4794	4537	4531
75	3223	2765	2841
85	1048	623	1019

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2408.621	2408.621	2408.621	2408.621	2408.621
5	2402.375	2401.807	2400.104	2394.993	2394.993
10	2360.925	2367.739	2366.035	2362.629	2359.790
15	2296.763	2306.416	2305.281	2310.391	2306.416
20	2208.186	2219.542	2218.407	2240.551	2226.356
25	2084.973	2100.871	2113.363	2133.236	2111.660
30	1931.666	1960.624	1974.251	1982.201	1965.166
35	1750.537	1787.444	1794.258	1782.902	1776.656
40	1551.238	1567.704	1568.840	1561.458	1572.247
45	1324.117	1323.549	1320.710	1318.439	1339.447
50	1090.182	1073.716	1077.690	1068.605	1086.207
55	854.544	842.620	838.077	842.620	842.052
60	639.346	626.855	626.287	634.804	633.100
65	466.166	458.217	441.183	457.081	440.615
70	313.427	312.292	283.902	309.453	284.469
75	191.917	184.536	164.663	181.697	169.205
80	86.874	85.170	70.408	77.789	82.331
85	21.009	22.712	12.492	15.898	20.441
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	878.22	N.A.	16.20
0-30	1848.97	N.A.	34.10
0-40	2959.37	N.A.	54.60
0-60	4737.46	N.A.	87.50
0-80	5385.75	N.A.	99.40
0-90	5417.15	N.A.	100.00
10-90	5189.29	N.A.	95.80
20-40	2081.15	N.A.	38.40
20-50	3101.09	N.A.	57.20
40-70	2232.32	N.A.	41.20
60-80	648.29	N.A.	12.00
70-80	194.07	N.A.	3.60
80-90	31.40	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	5417.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	227.86
10-20	650.35
20-30	970.75
30-40	1110.4
40-50	1019.93
50-60	758.16
60-70	454.22
70-80	194.07
80-90	31.40
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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

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UGR TABLE - CORRECTED

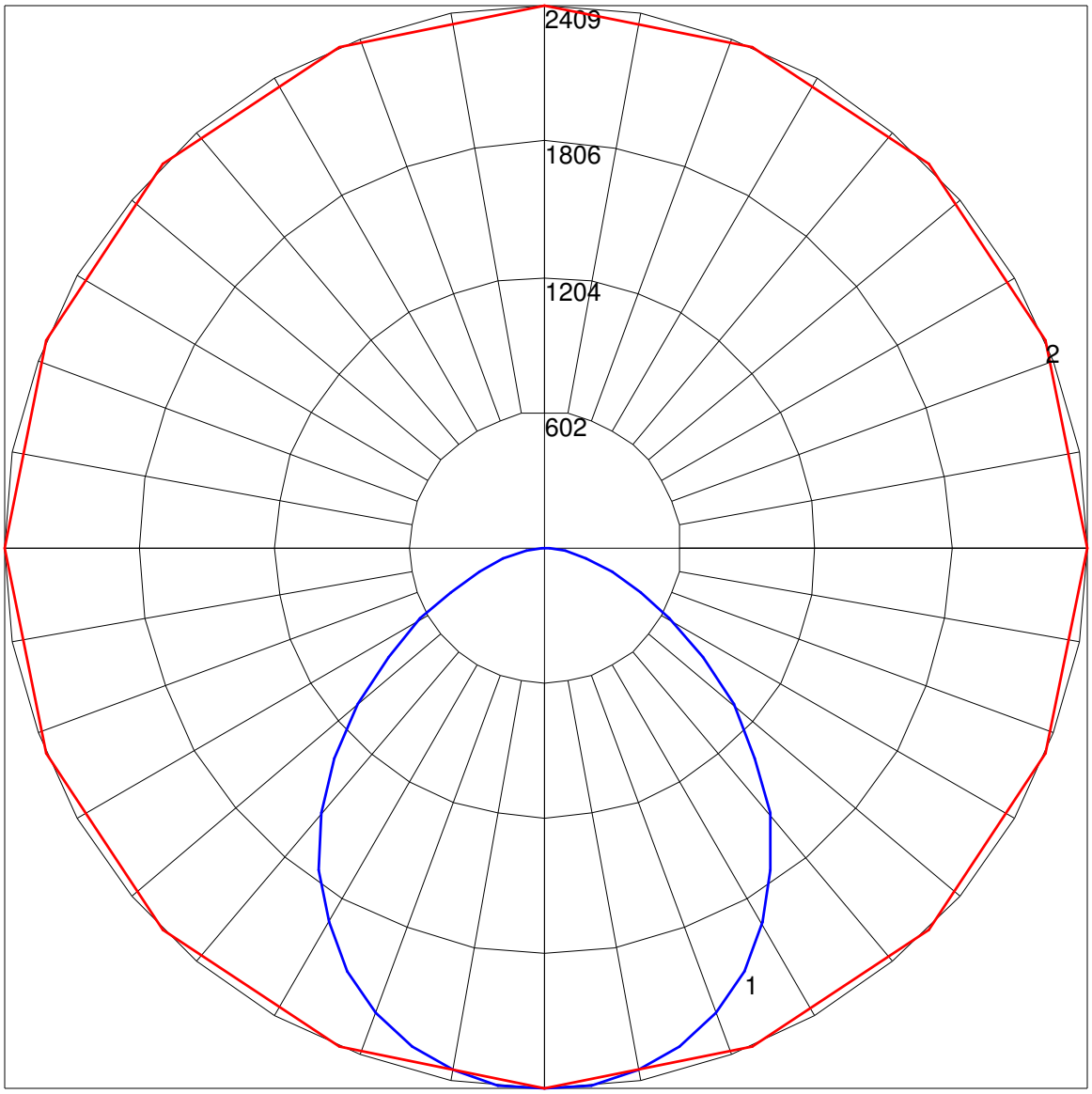
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.4	18.2	19.7	20.0	17.9	19.4	18.3	19.7	20.0
	3H	19.0	20.4	19.4	20.7	21.1	19.0	20.3	19.3	20.6	21.0
	4H	19.4	20.7	19.8	21.0	21.4	19.3	20.5	19.7	20.9	21.3
	6H	19.6	20.7	20.0	21.1	21.5	19.4	20.6	19.8	20.9	21.3
	8H	19.6	20.7	20.0	21.1	21.5	19.4	20.5	19.8	20.9	21.3
	12H	19.6	20.6	20.0	21.0	21.5	19.4	20.5	19.9	20.9	21.3
4H	2H	18.2	19.5	18.6	19.9	20.2	18.3	19.5	18.7	19.9	20.2
	3H	19.6	20.6	20.0	21.0	21.4	19.5	20.6	20.0	21.0	21.4
	4H	20.0	21.0	20.5	21.4	21.8	19.9	20.9	20.3	21.3	21.7
	6H	20.3	21.1	20.7	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	20.2	20.9	20.6	21.4	21.8
	12H	20.3	21.0	20.8	21.5	21.9	20.2	20.8	20.7	21.3	21.8
8H	4H	20.1	20.9	20.6	21.3	21.8	20.0	20.8	20.5	21.2	21.7
	6H	20.4	21.0	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	20.3	20.9	20.8	21.4	21.9
	12H	20.5	21.0	21.0	21.5	22.1	20.3	20.8	20.8	21.3	21.9
12H	4H	20.1	20.8	20.6	21.3	21.7	20.0	20.7	20.5	21.2	21.6
	6H	20.4	21.0	20.9	21.4	22.0	20.3	20.8	20.8	21.3	21.8
	8H	20.5	21.0	21.0	21.5	22.0	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 22.1

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POLAR GRAPH



Maximum Candela = 2408.621 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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