IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-830-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-L65-830-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	6461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	9707	9682	9820
55	7723	7575	7610
65	5718	5412	5405
75	3844	3298	3389
85	1250	743	1216

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2872.934	2872.934	2872.934	2872.934	2872.934
5	2865.484	2864.806	2862.775	2856.679	2856.679
10	2816.044	2824.171	2822.139	2818.076	2814.689
15	2739.513	2751.027	2749.672	2755.768	2751.027
20	2633.861	2647.406	2646.052	2672.465	2655.533
25	2486.896	2505.859	2520.759	2544.463	2518.727
30	2304.036	2338.576	2354.830	2364.312	2343.994
35	2087.990	2132.012	2140.139	2126.594	2119.144
40	1850.272	1869.913	1871.267	1862.463	1875.331
45	1579.368	1578.691	1575.305	1572.596	1597.654
50	1300.338	1280.697	1285.438	1274.602	1295.597
55	1019.275	1005.053	999.635	1005.053	1004.375
60	762.594	747.694	747.017	757.176	755.144
65	556.030	546.548	526.230	545.194	525.553
70	373.847	372.493	338.630	369.106	339.307
75	228.914	220.109	196.405	216.723	201.823
80	103.621	101.589	83.980	92.785	98.203
85	25.059	27.090	14.900	18.963	24.381
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1047.51	N.A.	16.20
0-30	2205.4	N.A.	34.10
0-40	3529.85	N.A.	54.60
0-60	5650.71	N.A.	87.50
0-80	6423.97	N.A.	99.40
0-90	6461.42	N.A.	100.00
10-90	6189.63	N.A.	95.80
20-40	2482.34	N.A.	38.40
20-50	3698.89	N.A.	57.20
40-70	2662.64	N.A.	41.20
60-80	773.26	N.A.	12.00
70-80	231.48	N.A.	3.60
80-90	37.45	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	6461.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.79
10-20	775.72
20-30	1157.89
30-40	1324.45
40-50	1216.54
50-60	904.31
60-70	541.79
70-80	231.48
80-90	37.45
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

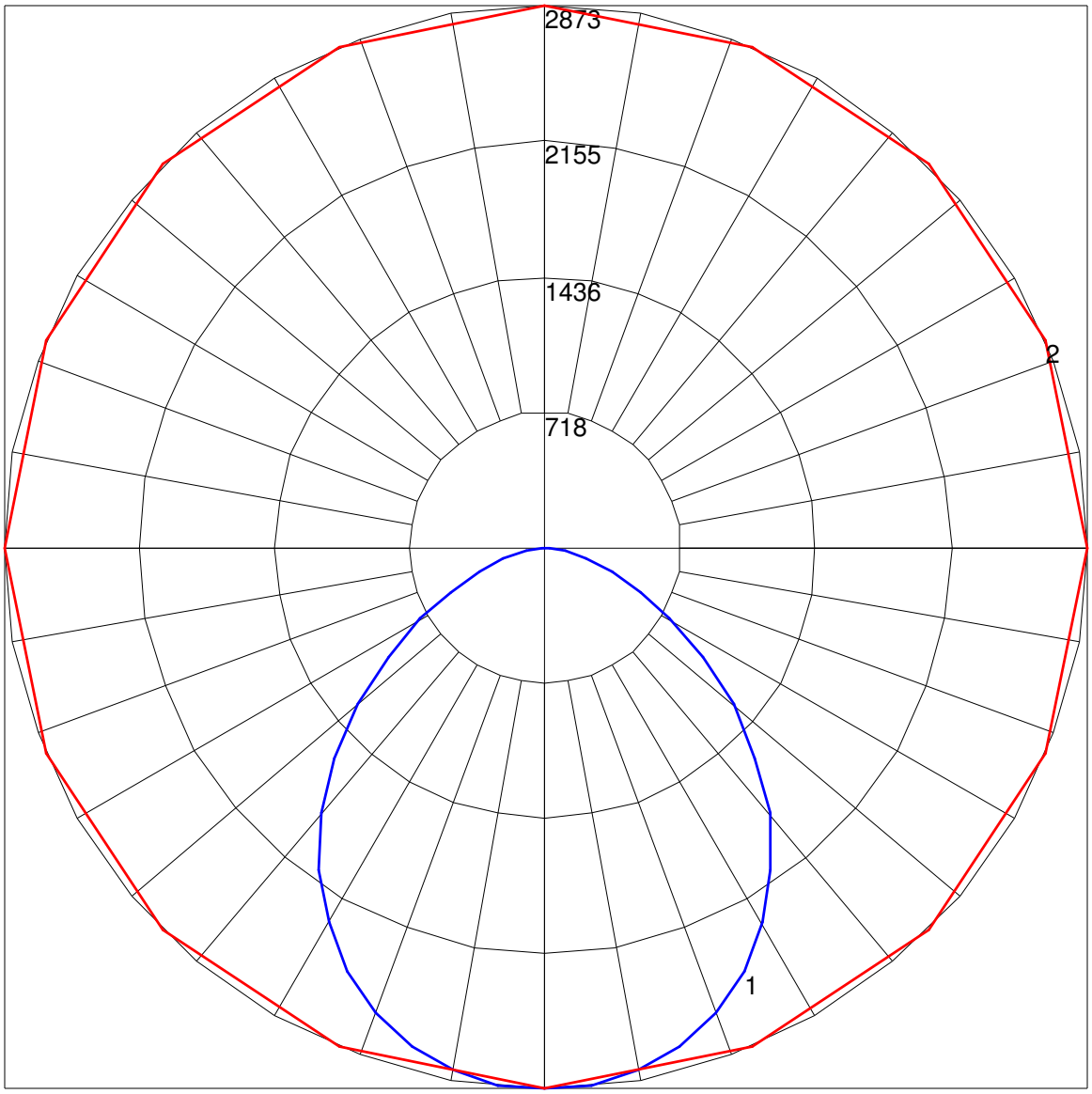
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.5	20.0	18.8	20.3	20.6	18.5	20.0	18.9	20.3	20.6
	3H	19.6	21.0	20.0	21.3	21.7	19.6	20.9	19.9	21.2	21.6
	4H	20.0	21.3	20.4	21.6	22.0	19.9	21.1	20.3	21.5	21.9
	6H	20.2	21.3	20.6	21.7	22.1	20.0	21.2	20.4	21.5	21.9
	8H	20.2	21.3	20.6	21.7	22.1	20.0	21.1	20.4	21.5	21.9
	12H	20.2	21.2	20.6	21.6	22.1	20.0	21.1	20.5	21.5	21.9
4H	2H	18.8	20.1	19.2	20.5	20.8	18.9	20.1	19.3	20.5	20.8
	3H	20.2	21.2	20.6	21.6	22.0	20.1	21.2	20.6	21.6	22.0
	4H	20.6	21.6	21.1	22.0	22.4	20.5	21.5	20.9	21.9	22.3
	6H	20.9	21.7	21.3	22.1	22.6	20.7	21.5	21.2	22.0	22.4
	8H	20.9	21.7	21.4	22.1	22.6	20.8	21.5	21.2	22.0	22.4
	12H	20.9	21.6	21.4	22.1	22.5	20.8	21.4	21.3	21.9	22.4
8H	4H	20.7	21.5	21.2	21.9	22.4	20.6	21.4	21.1	21.8	22.3
	6H	21.0	21.6	21.5	22.1	22.6	20.9	21.5	21.4	22.0	22.5
	8H	21.1	21.6	21.6	22.1	22.6	20.9	21.5	21.4	22.0	22.5
	12H	21.1	21.6	21.6	22.1	22.7	20.9	21.4	21.4	21.9	22.5
12H	4H	20.7	21.4	21.2	21.9	22.3	20.6	21.3	21.1	21.8	22.2
	6H	21.0	21.6	21.5	22.0	22.6	20.9	21.4	21.4	21.9	22.4
	8H	21.1	21.6	21.6	22.1	22.6	20.9	21.4	21.4	21.9	22.5

Maximum UGR = 22.7

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POLAR GRAPH



Maximum Candela = 2872.934 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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