IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-950-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-L65-950-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	5874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
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	8825	8802	8927
55	7021	6886	6919
65	5198	4920	4913
75	3495	2998	3081
85	1136	675	1105

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2611.758	2611.758	2611.758	2611.758	2611.758
5	2604.985	2604.369	2602.522	2596.981	2596.981
10	2560.040	2567.428	2565.581	2561.887	2558.808
15	2490.467	2500.933	2499.702	2505.243	2500.933
20	2394.419	2406.733	2405.502	2429.513	2414.121
25	2260.814	2278.054	2291.599	2313.148	2289.752
30	2094.578	2125.978	2140.755	2149.374	2130.904
35	1898.173	1938.193	1945.581	1933.267	1926.495
40	1682.066	1699.921	1701.152	1693.148	1704.846
45	1435.789	1435.174	1432.095	1429.633	1452.413
50	1182.125	1164.270	1168.580	1158.729	1177.815
55	926.614	913.684	908.759	913.684	913.069
60	693.267	679.722	679.106	688.342	686.495
65	505.482	496.862	478.391	495.631	477.776
70	339.861	338.630	307.845	335.551	308.461
75	208.103	200.099	178.550	197.021	183.476
80	94.201	92.354	76.346	84.350	89.275
85	22.781	24.628	13.545	17.239	22.165
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	952.28	N.A.	16.20
0-30	2004.91	N.A.	34.10
0-40	3208.96	N.A.	54.60
0-60	5137.01	N.A.	87.50
0-80	5839.97	N.A.	99.40
0-90	5874.02	N.A.	100.00
10-90	5626.94	N.A.	95.80
20-40	2256.67	N.A.	38.40
20-50	3362.62	N.A.	57.20
40-70	2420.58	N.A.	41.20
60-80	702.97	N.A.	12.00
70-80	210.44	N.A.	3.60
80-90	34.04	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	5874.02	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.08
10-20	705.20
20-30	1052.62
30-40	1204.05
40-50	1105.95
50-60	822.10
60-70	492.53
70-80	210.44
80-90	34.04
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

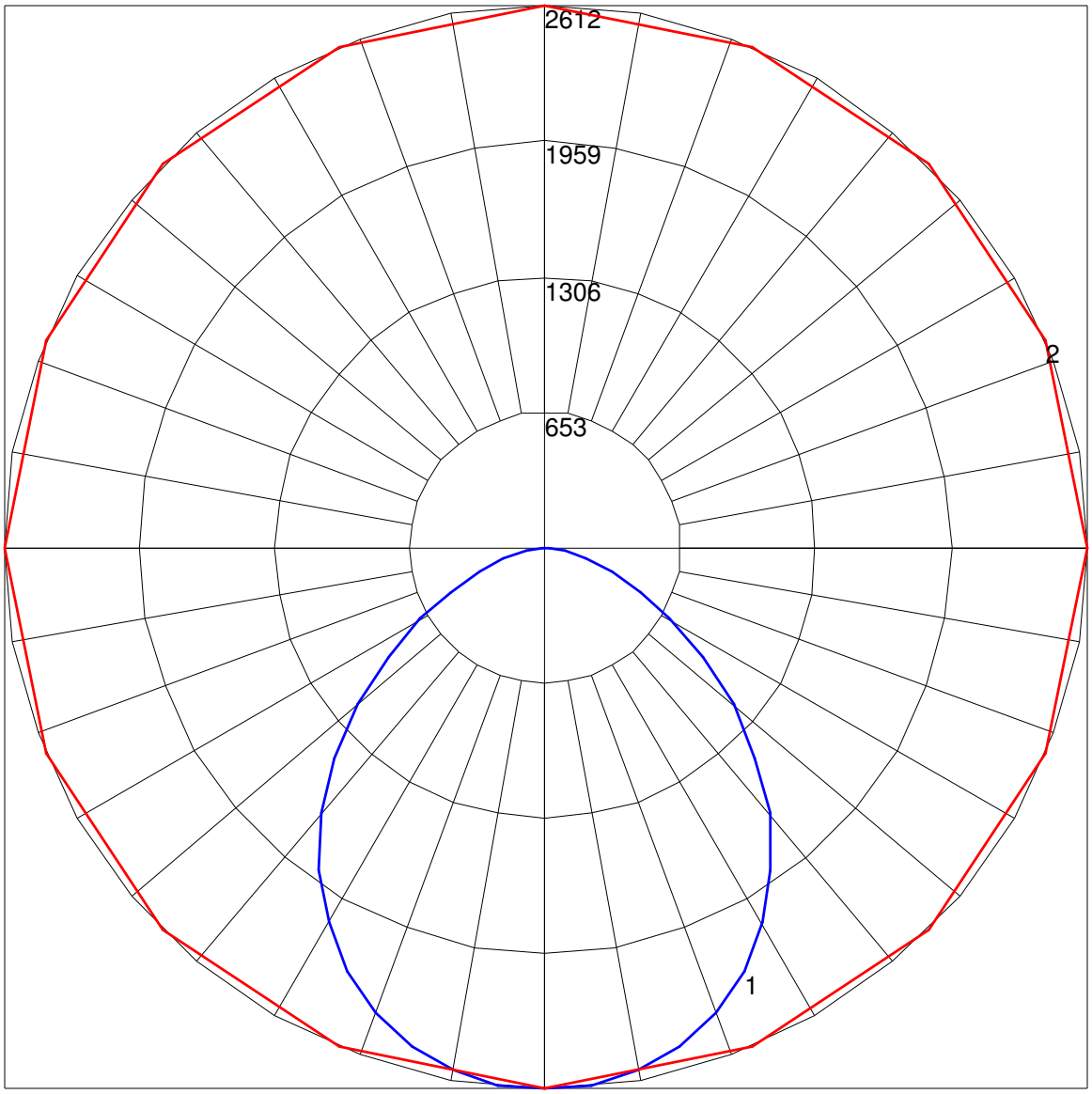
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.2	19.7	18.5	20.0	20.3	18.2	19.7	18.6	20.0	20.3
	3H	19.3	20.7	19.7	21.0	21.4	19.3	20.6	19.6	20.9	21.3
	4H	19.7	21.0	20.1	21.3	21.7	19.6	20.8	20.0	21.2	21.6
	6H	19.9	21.0	20.3	21.4	21.8	19.7	20.9	20.1	21.2	21.6
	8H	19.9	21.0	20.3	21.4	21.8	19.7	20.8	20.1	21.2	21.6
	12H	19.9	20.9	20.3	21.3	21.8	19.7	20.8	20.2	21.2	21.6
4H	2H	18.5	19.8	18.9	20.2	20.5	18.6	19.8	19.0	20.2	20.5
	3H	19.9	20.9	20.3	21.3	21.7	19.8	20.9	20.3	21.3	21.7
	4H	20.3	21.3	20.8	21.7	22.1	20.2	21.2	20.6	21.6	22.0
	6H	20.6	21.4	21.0	21.8	22.3	20.4	21.2	20.9	21.7	22.2
	8H	20.6	21.4	21.1	21.8	22.3	20.5	21.2	20.9	21.7	22.1
	12H	20.6	21.3	21.1	21.8	22.2	20.5	21.1	21.0	21.6	22.1
8H	4H	20.4	21.2	20.9	21.6	22.1	20.3	21.1	20.8	21.5	22.0
	6H	20.7	21.3	21.2	21.8	22.3	20.6	21.2	21.1	21.7	22.2
	8H	20.8	21.3	21.3	21.8	22.3	20.6	21.2	21.1	21.7	22.2
	12H	20.8	21.3	21.3	21.8	22.4	20.6	21.1	21.1	21.6	22.2
12H	4H	20.4	21.1	20.9	21.6	22.0	20.3	21.0	20.8	21.5	21.9
	6H	20.7	21.3	21.2	21.7	22.3	20.6	21.1	21.1	21.6	22.1
	8H	20.8	21.3	21.3	21.8	22.3	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.4

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POLAR GRAPH



Maximum Candela = 2611.758 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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