IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-840-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-L65-840-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	6722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
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	10100	10074	10217
55	8035	7881	7918
65	5949	5630	5623
75	3999	3431	3526
85	1300	773	1265

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2989.012	2989.012	2989.012	2989.012	2989.012
5	2981.261	2980.556	2978.442	2972.101	2972.101
10	2929.823	2938.279	2936.165	2931.937	2928.414
15	2850.201	2862.180	2860.770	2867.112	2862.180
20	2740.280	2754.372	2752.963	2780.443	2762.828
25	2587.376	2607.106	2622.608	2647.269	2620.494
30	2397.128	2433.064	2449.975	2459.840	2438.701
35	2172.353	2218.154	2226.609	2212.517	2204.766
40	1925.031	1945.465	1946.874	1937.714	1951.102
45	1643.181	1642.477	1638.954	1636.135	1662.206
50	1352.877	1332.443	1337.375	1326.101	1347.944
55	1060.458	1045.661	1040.024	1045.661	1044.956
60	793.406	777.904	777.199	787.769	785.655
65	578.496	568.631	547.492	567.222	546.788
70	388.952	387.543	352.312	384.020	353.016
75	238.163	229.003	204.341	225.479	209.978
80	107.807	105.693	87.373	96.533	102.170
85	26.071	28.185	15.502	19.729	25.366
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1089.83	N.A.	16.20
0-30	2294.5	N.A.	34.10
0-40	3672.47	N.A.	54.60
0-60	5879.02	N.A.	87.50
0-80	6683.53	N.A.	99.40
0-90	6722.49	N.A.	100.00
10-90	6439.72	N.A.	95.80
20-40	2582.64	N.A.	38.40
20-50	3848.34	N.A.	57.20
40-70	2770.22	N.A.	41.20
60-80	804.51	N.A.	12.00
70-80	240.83	N.A.	3.60
80-90	38.96	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	6722.49	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	282.77
10-20	807.06
20-30	1204.67
30-40	1377.97
40-50	1265.7
50-60	940.85
60-70	563.68
70-80	240.83
80-90	38.96
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

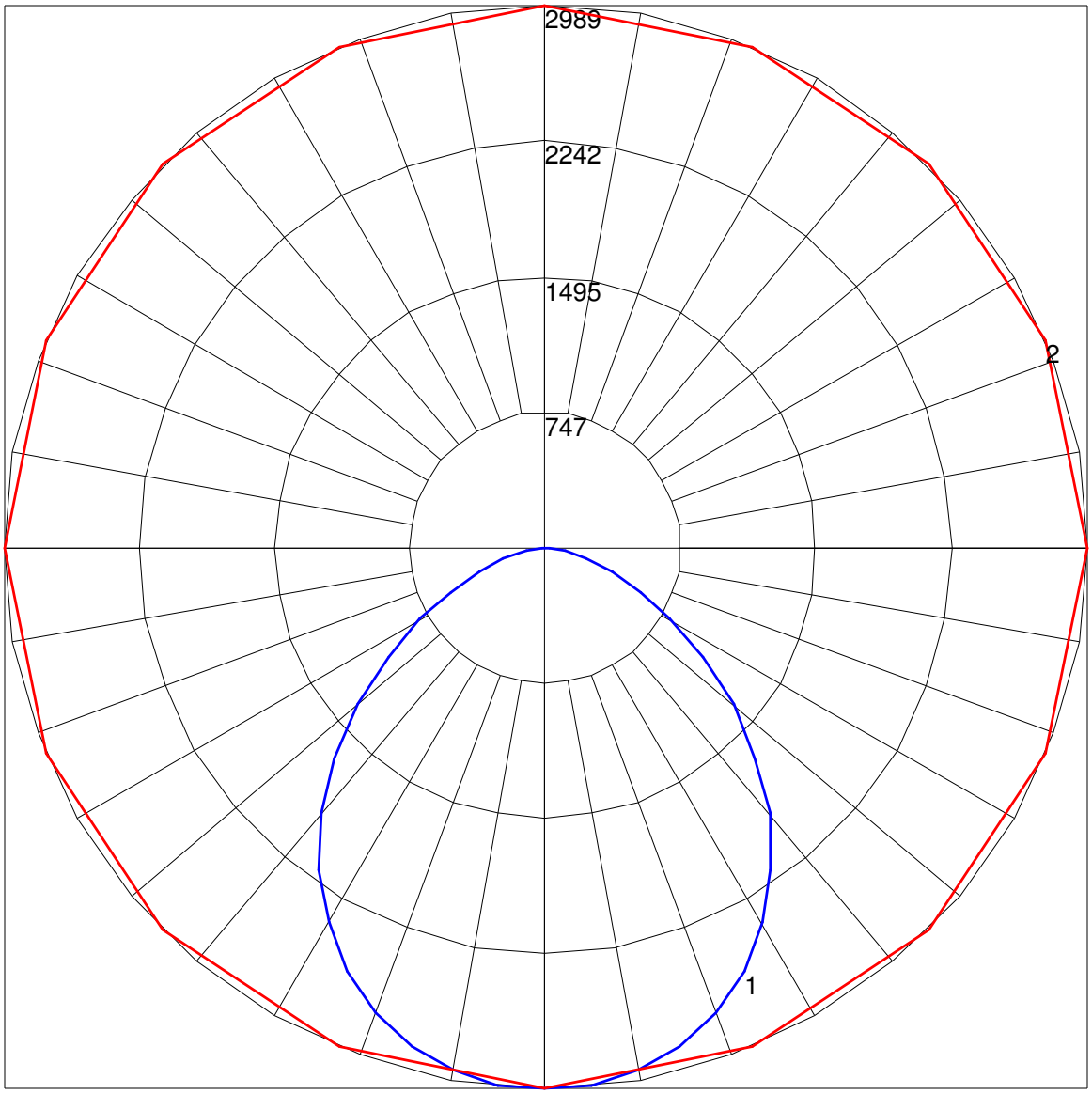
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.6	20.1	18.9	20.4	20.7	18.6	20.1	19.0	20.4	20.7
	3H	19.7	21.1	20.1	21.4	21.8	19.7	21.0	20.0	21.3	21.7
	4H	20.1	21.4	20.5	21.7	22.1	20.0	21.2	20.4	21.6	22.0
	6H	20.3	21.4	20.7	21.8	22.2	20.1	21.3	20.5	21.6	22.0
	8H	20.3	21.4	20.7	21.8	22.2	20.1	21.2	20.5	21.6	22.0
	12H	20.3	21.3	20.7	21.7	22.2	20.1	21.2	20.6	21.6	22.0
4H	2H	18.9	20.2	19.3	20.6	20.9	19.0	20.2	19.4	20.6	20.9
	3H	20.3	21.3	20.7	21.7	22.1	20.2	21.3	20.7	21.7	22.1
	4H	20.7	21.7	21.2	22.1	22.5	20.6	21.6	21.0	22.0	22.4
	6H	21.0	21.8	21.4	22.2	22.7	20.8	21.6	21.3	22.1	22.5
	8H	21.0	21.8	21.5	22.2	22.7	20.9	21.6	21.3	22.1	22.5
	12H	21.0	21.7	21.5	22.2	22.6	20.9	21.5	21.4	22.0	22.5
8H	4H	20.8	21.6	21.3	22.0	22.5	20.7	21.5	21.2	21.9	22.4
	6H	21.1	21.7	21.6	22.2	22.7	21.0	21.6	21.5	22.1	22.6
	8H	21.2	21.7	21.7	22.2	22.7	21.0	21.6	21.5	22.1	22.6
	12H	21.2	21.7	21.7	22.2	22.8	21.0	21.5	21.5	22.0	22.6
12H	4H	20.8	21.5	21.3	22.0	22.4	20.7	21.4	21.2	21.9	22.3
	6H	21.1	21.7	21.6	22.1	22.7	21.0	21.5	21.5	22.0	22.5
	8H	21.2	21.7	21.7	22.2	22.7	21.0	21.5	21.5	22.0	22.6

Maximum UGR = 22.8

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POLAR GRAPH



Maximum Candela = 2989.012 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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