IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-835-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-L65-835-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	6527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	9805	9780	9919
55	7801	7651	7687
65	5776	5466	5459
75	3883	3331	3423
85	1262	750	1228

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2901.953	2901.953	2901.953	2901.953	2901.953
5	2894.428	2893.744	2891.692	2885.535	2885.535
10	2844.489	2852.698	2850.646	2846.541	2843.120
15	2767.185	2778.815	2777.447	2783.604	2778.815
20	2660.466	2674.148	2672.780	2699.459	2682.357
25	2512.016	2531.171	2546.221	2570.164	2544.169
30	2327.309	2362.198	2378.616	2388.194	2367.671
35	2109.081	2153.547	2161.757	2148.075	2140.550
40	1868.962	1888.801	1890.169	1881.276	1894.273
45	1595.322	1594.638	1591.217	1588.481	1613.792
50	1313.472	1293.633	1298.422	1287.477	1308.684
55	1029.571	1015.205	1009.732	1015.205	1014.521
60	770.297	755.247	754.563	764.824	762.772
65	561.646	552.069	531.546	550.701	530.862
70	377.623	376.255	342.050	372.835	342.734
75	231.226	222.333	198.389	218.912	203.862
80	104.667	102.615	84.828	93.722	99.195
85	25.312	27.364	15.050	19.155	24.628
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1058.09	N.A.	16.20
0-30	2227.67	N.A.	34.10
0-40	3565.51	N.A.	54.60
0-60	5707.79	N.A.	87.50
0-80	6488.86	N.A.	99.40
0-90	6526.69	N.A.	100.00
10-90	6252.15	N.A.	95.80
20-40	2507.42	N.A.	38.40
20-50	3736.25	N.A.	57.20
40-70	2689.54	N.A.	41.20
60-80	781.07	N.A.	12.00
70-80	233.82	N.A.	3.60
80-90	37.83	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	6526.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	274.53
10-20	783.56
20-30	1169.58
30-40	1337.83
40-50	1228.83
50-60	913.45
60-70	547.26
70-80	233.82
80-90	37.83
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

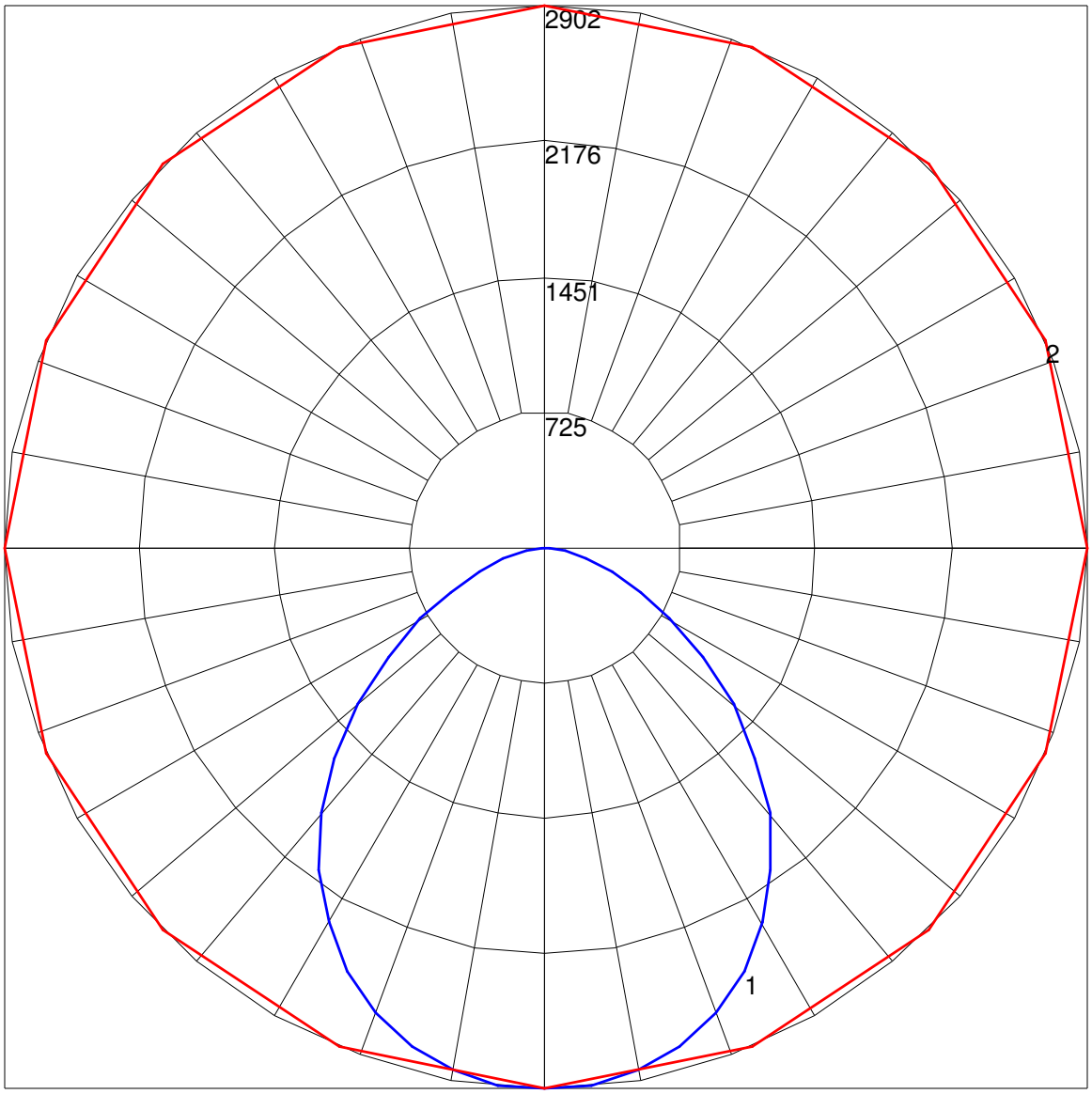
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.5	20.0	18.8	20.3	20.6	18.5	20.0	18.9	20.3	20.6
	3H	19.6	21.0	20.0	21.3	21.7	19.6	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 = 2901.953 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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