IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-827-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-L65-827-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	6331
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	9511	9487	9621
55	7567	7422	7457
65	5603	5302	5296
75	3766	3231	3321
85	1224	728	1191

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2814.894	2814.894	2814.894	2814.894	2814.894
5	2807.595	2806.932	2804.941	2798.969	2798.969
10	2759.154	2767.117	2765.126	2761.145	2757.827
15	2684.170	2695.451	2694.123	2700.096	2695.451
20	2580.652	2593.923	2592.596	2618.476	2601.886
25	2436.655	2455.236	2469.834	2493.060	2467.844
30	2257.490	2291.332	2307.258	2316.548	2296.641
35	2045.809	2088.941	2096.904	2083.632	2076.333
40	1812.893	1832.137	1833.464	1824.837	1837.445
45	1547.462	1546.798	1543.481	1540.826	1565.379
50	1274.068	1254.824	1259.470	1248.852	1269.423
55	998.684	984.749	979.440	984.749	984.085
60	747.188	732.589	731.926	741.879	739.889
65	544.797	535.507	515.599	534.180	514.936
70	366.295	364.967	331.789	361.650	332.452
75	224.289	215.663	192.437	212.345	197.746
80	101.527	99.537	82.284	90.910	96.219
85	24.552	26.543	14.599	18.580	23.889
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1026.35	N.A.	16.20
0-30	2160.84	N.A.	34.10
0-40	3458.54	N.A.	54.60
0-60	5536.55	N.A.	87.50
0-80	6294.19	N.A.	99.40
0-90	6330.89	N.A.	100.00
10-90	6064.59	N.A.	95.80
20-40	2432.19	N.A.	38.40
20-50	3624.16	N.A.	57.20
40-70	2608.85	N.A.	41.20
60-80	757.64	N.A.	12.00
70-80	226.80	N.A.	3.60
80-90	36.69	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	6330.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	266.30
10-20	760.05
20-30	1134.5
30-40	1297.7
40-50	1191.97
50-60	886.04
60-70	530.84
70-80	226.80
80-90	36.69
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

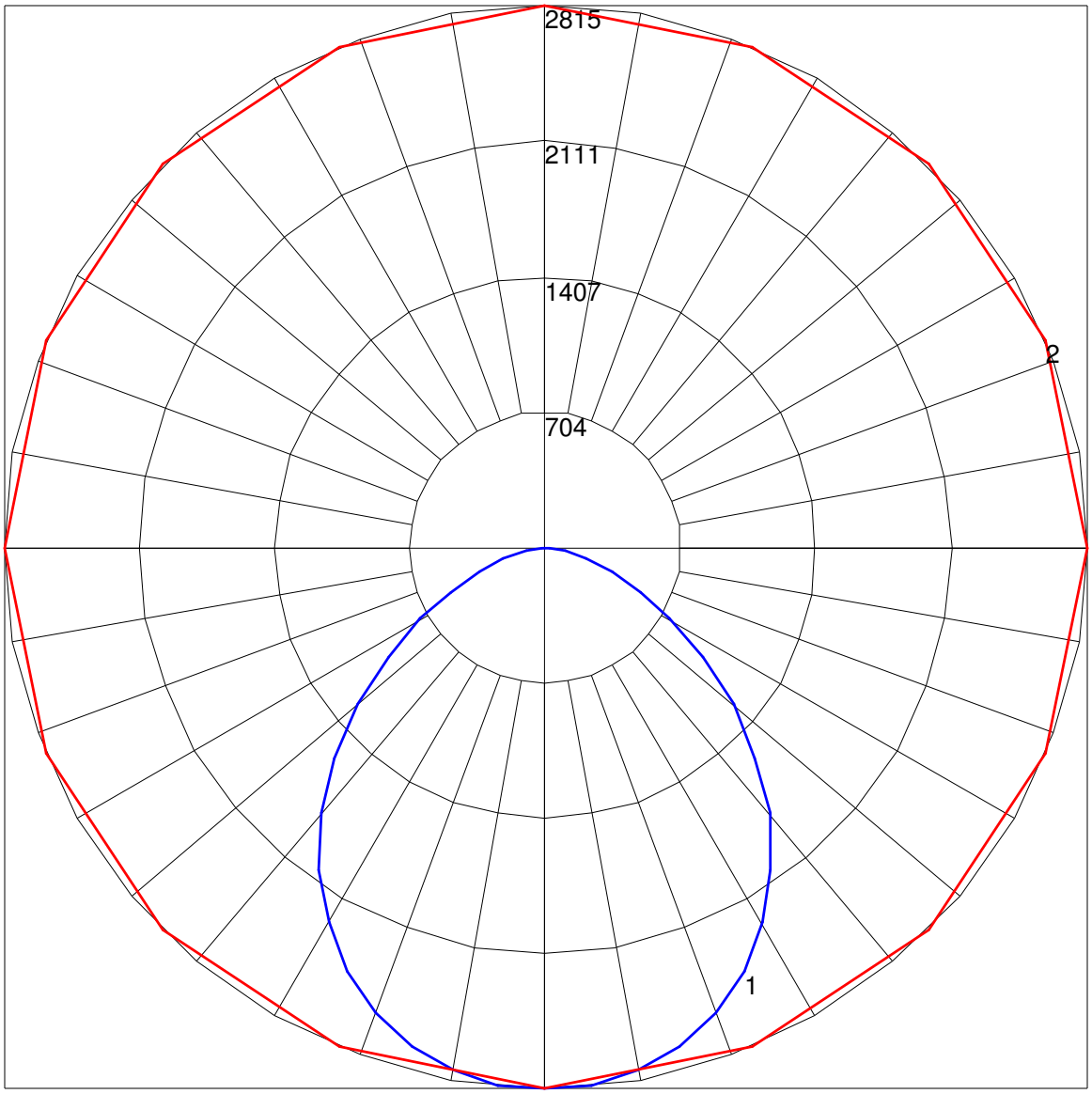
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.4	19.9	18.7	20.2	20.5	18.4	19.9	18.8	20.2	20.5
	3H	19.5	20.9	19.9	21.2	21.6	19.5	20.8	19.8	21.1	21.5
	4H	19.9	21.2	20.3	21.5	21.9	19.8	21.0	20.2	21.4	21.8
	6H	20.1	21.2	20.5	21.6	22.0	19.9	21.1	20.3	21.4	21.8
	8H	20.1	21.2	20.5	21.6	22.0	19.9	21.0	20.3	21.4	21.8
	12H	20.1	21.1	20.5	21.5	22.0	19.9	21.0	20.4	21.4	21.8
4H	2H	18.7	20.0	19.1	20.4	20.7	18.8	20.0	19.2	20.4	20.7
	3H	20.1	21.1	20.5	21.5	21.9	20.0	21.1	20.5	21.5	21.9
	4H	20.5	21.5	21.0	21.9	22.3	20.4	21.4	20.8	21.8	22.2
	6H	20.8	21.6	21.2	22.0	22.5	20.6	21.4	21.1	21.9	22.4
	8H	20.8	21.6	21.3	22.0	22.5	20.7	21.4	21.1	21.9	22.3
	12H	20.8	21.5	21.3	22.0	22.4	20.7	21.3	21.2	21.8	22.3
8H	4H	20.6	21.4	21.1	21.8	22.3	20.5	21.3	21.0	21.7	22.2
	6H	20.9	21.5	21.4	22.0	22.5	20.8	21.4	21.3	21.9	22.4
	8H	21.0	21.5	21.5	22.0	22.5	20.8	21.4	21.3	21.9	22.4
	12H	21.0	21.5	21.5	22.0	22.6	20.8	21.3	21.3	21.8	22.4
12H	4H	20.6	21.3	21.1	21.8	22.2	20.5	21.2	21.0	21.7	22.1
	6H	20.9	21.5	21.4	21.9	22.5	20.8	21.3	21.3	21.8	22.3
	8H	21.0	21.5	21.5	22.0	22.5	20.8	21.3	21.3	21.8	22.4

Maximum UGR = 22.6

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POLAR GRAPH



Maximum Candela = 2814.894 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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