IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-927-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-L65-927-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	5221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	7844	7824	7935
55	6241	6121	6150
65	4621	4373	4367
75	3106	2665	2739
85	1010	600	982

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2321.562	2321.562	2321.562	2321.562	2321.562
5	2315.542	2314.995	2313.353	2308.427	2308.427
10	2275.591	2282.158	2280.516	2277.232	2274.496
15	2213.748	2223.052	2221.957	2226.883	2223.052
20	2128.372	2139.318	2138.223	2159.567	2145.885
25	2009.612	2024.936	2036.976	2056.131	2035.335
30	1861.847	1889.758	1902.893	1910.555	1894.136
35	1687.264	1722.838	1729.405	1718.459	1712.439
40	1495.169	1511.040	1512.135	1505.020	1515.419
45	1276.257	1275.710	1272.973	1270.784	1291.034
50	1050.778	1034.907	1038.738	1029.981	1046.947
55	823.657	812.164	807.785	812.164	811.616
60	616.237	604.197	603.650	611.859	610.217
65	449.317	441.655	425.237	440.560	424.689
70	302.099	301.004	273.640	298.268	274.187
75	184.981	177.866	158.711	175.130	163.089
80	83.734	82.092	67.863	74.977	79.356
85	20.249	21.891	12.040	15.324	19.702
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	846.47	N.A.	16.20
0-30	1782.14	N.A.	34.10
0-40	2852.4	N.A.	54.60
0-60	4566.23	N.A.	87.50
0-80	5191.09	N.A.	99.40
0-90	5221.35	N.A.	100.00
10-90	5001.72	N.A.	95.80
20-40	2005.93	N.A.	38.40
20-50	2989.00	N.A.	57.20
40-70	2151.63	N.A.	41.20
60-80	624.86	N.A.	12.00
70-80	187.05	N.A.	3.60
80-90	30.26	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	5221.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.63
10-20	626.85
20-30	935.67
30-40	1070.27
40-50	983.07
50-60	730.76
60-70	437.81
70-80	187.05
80-90	30.26
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

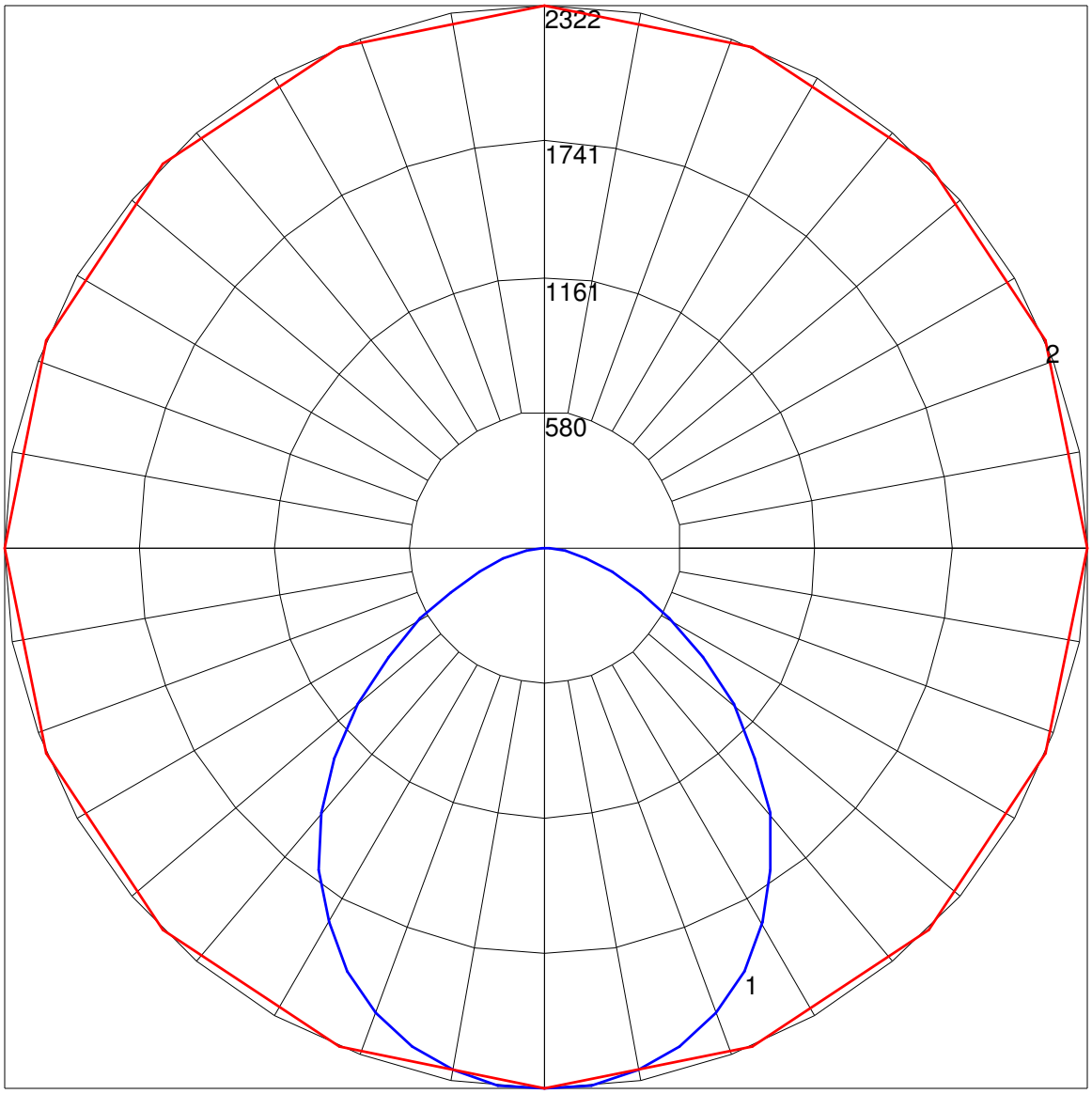
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.7	19.2	18.0	19.5	19.8	17.7	19.2	18.1	19.5	19.8
	3H	18.8	20.2	19.2	20.5	20.9	18.8	20.1	19.1	20.4	20.8
	4H	19.2	20.5	19.6	20.8	21.2	19.1	20.3	19.5	20.7	21.1
	6H	19.4	20.5	19.8	20.9	21.3	19.2	20.4	19.6	20.7	21.1
	8H	19.4	20.5	19.8	20.9	21.3	19.2	20.3	19.6	20.7	21.1
	12H	19.4	20.4	19.8	20.8	21.3	19.2	20.3	19.7	20.7	21.1
4H	2H	18.0	19.3	18.4	19.7	20.0	18.1	19.3	18.5	19.7	20.0
	3H	19.4	20.4	19.8	20.8	21.2	19.3	20.4	19.8	20.8	21.2
	4H	19.8	20.8	20.3	21.2	21.6	19.7	20.7	20.1	21.1	21.5
	6H	20.1	20.9	20.5	21.3	21.8	19.9	20.7	20.4	21.2	21.6
	8H	20.1	20.9	20.6	21.3	21.8	20.0	20.7	20.4	21.2	21.6
	12H	20.1	20.8	20.6	21.3	21.7	20.0	20.6	20.5	21.1	21.6
8H	4H	19.9	20.7	20.4	21.1	21.6	19.8	20.6	20.3	21.0	21.5
	6H	20.2	20.8	20.7	21.3	21.8	20.1	20.7	20.6	21.2	21.7
	8H	20.3	20.8	20.8	21.3	21.8	20.1	20.7	20.6	21.2	21.7
	12H	20.3	20.8	20.8	21.3	21.9	20.1	20.6	20.6	21.1	21.7
12H	4H	19.9	20.6	20.4	21.1	21.5	19.8	20.5	20.3	21.0	21.4
	6H	20.2	20.8	20.7	21.2	21.8	20.1	20.6	20.6	21.1	21.6
	8H	20.3	20.8	20.8	21.3	21.8	20.1	20.6	20.6	21.1	21.7

Maximum UGR = 21.9

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POLAR GRAPH



Maximum Candela = 2321.562 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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