IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-940-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19835.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L120-940-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	10200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	101.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.57 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	6901	6864	6677
55	5705	5593	5279
65	4137	4088	3793
75	2463	2535	2514
85	538	742	764

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4443.516	4443.516	4443.516	4443.516	4443.516
5	4465.563	4437.638	4411.672	4401.384	4402.364
10	4398.934	4368.560	4351.413	4340.145	4342.104
15	4290.663	4262.738	4254.900	4230.894	4243.142
20	4133.891	4111.355	4112.335	4078.531	4092.738
25	3919.799	3906.571	3899.712	3865.908	3884.525
30	3663.084	3656.225	3633.199	3590.087	3611.153
35	3343.170	3350.029	3307.407	3238.819	3278.012
40	2962.018	2994.842	2926.254	2849.827	2896.859
45	2550.490	2587.724	2536.773	2444.179	2467.695
50	2133.084	2113.977	2120.346	2017.464	2014.525
55	1710.288	1669.136	1676.484	1581.441	1582.421
60	1291.412	1262.507	1254.669	1168.444	1183.631
65	913.689	895.562	902.911	837.262	837.752
70	597.695	580.058	601.124	574.669	561.441
75	333.141	329.712	342.940	355.187	340.000
80	141.095	136.196	154.323	176.369	157.752
85	24.496	27.435	33.804	49.971	34.784
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1619.65	N.A.	15.90
0-30	3410.44	N.A.	33.40
0-40	5469.96	N.A.	53.60
0-60	8881.96	N.A.	87.10
0-80	10138.96	N.A.	99.40
0-90	10200.03	N.A.	100.00
10-90	9780.01	N.A.	95.90
20-40	3850.31	N.A.	37.70
20-50	5788.08	N.A.	56.70
40-70	4294.73	N.A.	42.10
60-80	1257.00	N.A.	12.30
70-80	374.27	N.A.	3.70
80-90	61.08	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	10200.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	420.02
10-20	1199.62
20-30	1790.8
30-40	2059.51
40-50	1937.77
50-60	1474.23
60-70	882.73
70-80	374.27
80-90	61.08
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	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

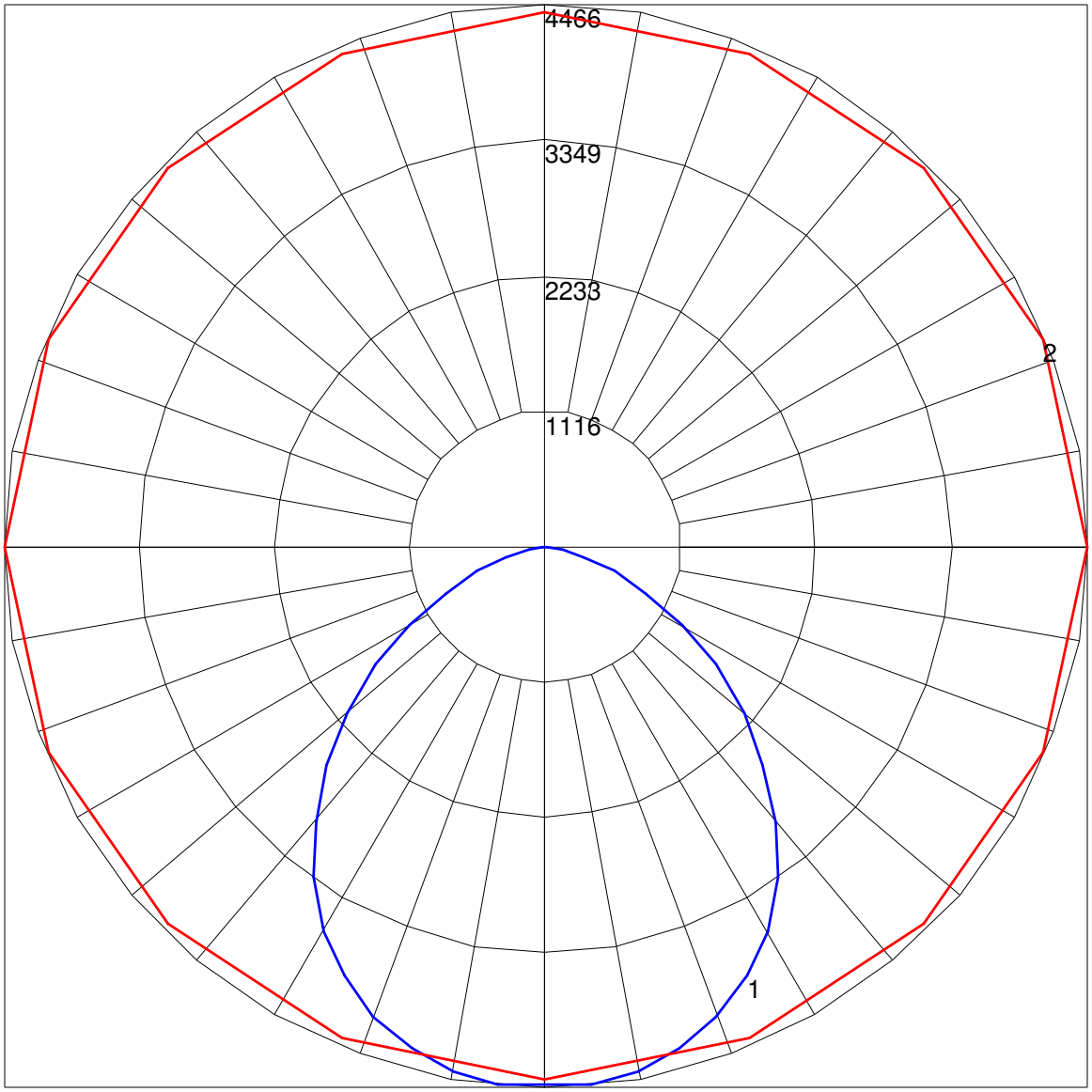
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.6	19.1	18.0	19.4	19.8	17.1	18.7	17.5	19.0	19.3
	3H	18.7	20.1	19.1	20.4	20.7	18.3	19.6	18.6	19.9	20.3
	4H	19.0	20.2	19.4	20.6	21.0	18.6	19.9	19.0	20.2	20.6
	6H	19.1	20.3	19.5	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	8H	19.1	20.2	19.5	20.6	21.0	18.8	19.9	19.2	20.3	20.7
	12H	19.1	20.1	19.5	20.5	20.9	18.8	19.8	19.2	20.2	20.7
4H	2H	18.0	19.3	18.4	19.6	20.0	17.6	18.9	18.0	19.2	19.6
	3H	19.3	20.3	19.7	20.7	21.1	18.9	20.0	19.3	20.4	20.8
	4H	19.6	20.6	20.1	21.0	21.4	19.4	20.3	19.8	20.7	21.1
	6H	19.8	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.9	21.3
	8H	19.8	20.6	20.3	21.0	21.5	19.6	20.4	20.1	20.8	21.3
	12H	19.8	20.5	20.3	20.9	21.4	19.6	20.3	20.1	20.8	21.3
8H	4H	19.7	20.5	20.2	20.9	21.4	19.5	20.2	19.9	20.7	21.1
	6H	19.9	20.6	20.4	21.0	21.5	19.8	20.4	20.3	20.9	21.4
	8H	20.0	20.5	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4
	12H	20.0	20.4	20.5	20.9	21.5	19.9	20.4	20.4	20.9	21.4
12H	4H	19.7	20.4	20.2	20.9	21.3	19.5	20.1	19.9	20.6	21.1
	6H	19.9	20.5	20.5	21.0	21.5	19.8	20.3	20.3	20.8	21.3
	8H	20.0	20.5	20.5	21.0	21.5	19.9	20.4	20.4	20.9	21.4

Maximum UGR = 21.5

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POLAR GRAPH



Maximum Candela = 4465.563 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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