IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-935-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-L60-935-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	5057
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	48.9
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	3421	3403	3310
55	2828	2773	2617
65	2051	2027	1880
75	1221	1257	1246
85	267	368	379

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2202.938	2202.938	2202.938	2202.938	2202.938
5	2213.868	2200.023	2187.151	2182.050	2182.536
10	2180.836	2165.777	2157.276	2151.690	2152.661
15	2127.159	2113.315	2109.428	2097.527	2103.599
20	2049.437	2038.264	2038.750	2021.991	2029.035
25	1943.297	1936.740	1933.339	1916.580	1925.810
30	1816.027	1812.627	1801.211	1779.838	1790.282
35	1657.425	1660.826	1639.695	1605.692	1625.122
40	1468.463	1484.736	1450.733	1412.843	1436.160
45	1264.443	1282.902	1257.642	1211.737	1223.396
50	1057.507	1048.035	1051.192	1000.187	998.730
55	847.900	827.498	831.142	784.022	784.508
60	640.236	625.906	622.020	579.273	586.802
65	452.975	443.988	447.631	415.085	415.328
70	296.316	287.572	298.016	284.900	278.343
75	165.160	163.459	170.017	176.089	168.560
80	69.950	67.521	76.508	87.437	78.208
85	12.144	13.601	16.759	24.774	17.245
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	802.96	N.A.	15.90
0-30	1690.78	N.A.	33.40
0-40	2711.81	N.A.	53.60
0-60	4403.36	N.A.	87.10
0-80	5026.53	N.A.	99.40
0-90	5056.81	N.A.	100.00
10-90	4848.58	N.A.	95.90
20-40	1908.85	N.A.	37.70
20-50	2869.52	N.A.	56.70
40-70	2129.18	N.A.	42.10
60-80	623.18	N.A.	12.30
70-80	185.55	N.A.	3.70
80-90	30.28	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	5056.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.23
10-20	594.73
20-30	887.81
30-40	1021.03
40-50	960.68
50-60	730.87
60-70	437.63
70-80	185.55
80-90	30.28
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

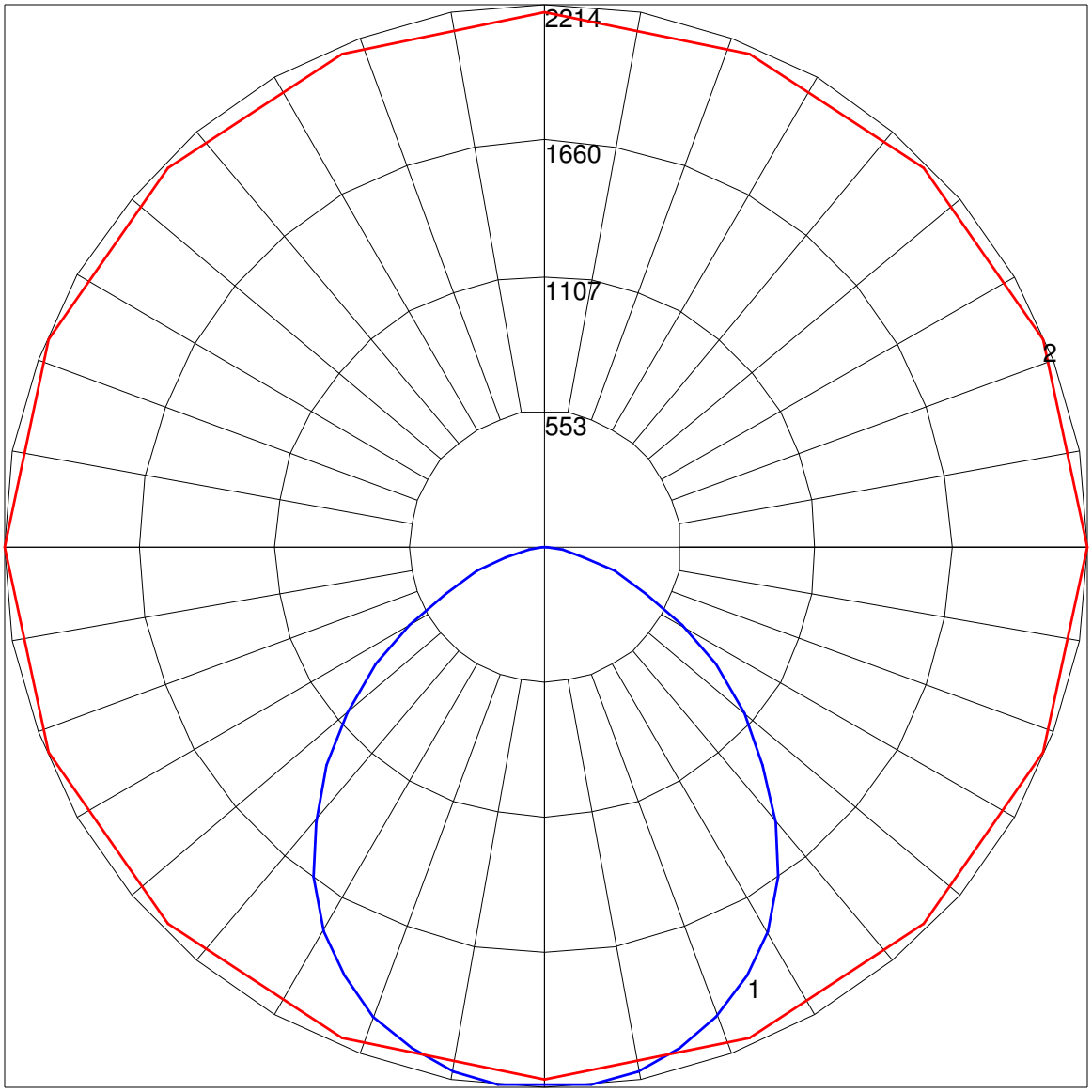
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.1	16.6	15.5	16.9	17.3	14.6	16.2	15.0	16.5	16.8
	3H	16.2	17.6	16.6	17.9	18.2	15.8	17.1	16.1	17.4	17.8
	4H	16.5	17.7	16.9	18.1	18.5	16.1	17.4	16.5	17.7	18.1
	6H	16.6	17.8	17.0	18.1	18.5	16.3	17.4	16.7	17.8	18.2
	8H	16.6	17.7	17.0	18.1	18.5	16.3	17.4	16.7	17.8	18.2
	12H	16.6	17.6	17.0	18.0	18.4	16.3	17.3	16.7	17.7	18.2
4H	2H	15.5	16.8	15.9	17.1	17.5	15.1	16.4	15.5	16.7	17.1
	3H	16.8	17.8	17.2	18.2	18.6	16.4	17.5	16.8	17.9	18.3
	4H	17.1	18.1	17.6	18.5	18.9	16.9	17.8	17.3	18.2	18.6
	6H	17.3	18.1	17.8	18.5	19.0	17.1	17.9	17.6	18.4	18.8
	8H	17.3	18.1	17.7	18.5	19.0	17.1	17.9	17.6	18.3	18.8
	12H	17.3	18.0	17.8	18.4	18.9	17.1	17.8	17.6	18.3	18.8
8H	4H	17.2	18.0	17.7	18.4	18.9	17.0	17.7	17.4	18.2	18.6
	6H	17.4	18.1	17.9	18.5	19.0	17.3	17.9	17.8	18.4	18.9
	8H	17.5	18.0	18.0	18.5	19.0	17.4	17.9	17.9	18.4	18.9
	12H	17.5	17.9	18.0	18.4	19.0	17.4	17.9	17.9	18.4	18.9
12H	4H	17.2	17.9	17.7	18.4	18.8	17.0	17.6	17.4	18.1	18.6
	6H	17.4	18.0	18.0	18.5	19.0	17.3	17.8	17.8	18.3	18.8
	8H	17.5	18.0	18.0	18.5	19.0	17.4	17.9	17.9	18.4	18.9

Maximum UGR = 19.0

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POLAR GRAPH



Maximum Candela = 2213.868 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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