IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-827-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-L60-827-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	5839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
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	3951	3930	3823
55	3266	3202	3022
65	2368	2340	2171
75	1410	1451	1439
85	308	425	437

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2543.869	2543.869	2543.869	2543.869	2543.869
5	2556.490	2540.504	2525.639	2519.749	2520.310
10	2518.346	2500.957	2491.141	2484.690	2485.812
15	2456.362	2440.376	2435.888	2422.145	2429.157
20	2366.612	2353.710	2354.271	2334.919	2343.052
25	2244.046	2236.473	2232.547	2213.194	2223.852
30	2097.079	2093.153	2079.971	2055.289	2067.350
35	1913.932	1917.859	1893.458	1854.192	1876.629
40	1695.726	1714.517	1675.251	1631.498	1658.423
45	1460.130	1481.446	1452.277	1399.268	1412.731
50	1221.169	1210.231	1213.877	1154.978	1153.296
55	979.123	955.564	959.771	905.359	905.920
60	739.321	722.773	718.285	668.923	677.617
65	523.078	512.700	516.907	479.324	479.605
70	342.174	332.077	344.138	328.992	321.419
75	190.720	188.757	196.329	203.341	194.647
80	80.776	77.971	88.348	100.969	90.312
85	14.024	15.706	19.352	28.608	19.913
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	927.23	N.A.	15.90
0-30	1952.44	N.A.	33.40
0-40	3131.5	N.A.	53.60
0-60	5084.83	N.A.	87.10
0-80	5804.45	N.A.	99.40
0-90	5839.42	N.A.	100.00
10-90	5598.96	N.A.	95.90
20-40	2204.26	N.A.	37.70
20-50	3313.62	N.A.	56.70
40-70	2458.69	N.A.	42.10
60-80	719.62	N.A.	12.30
70-80	214.26	N.A.	3.70
80-90	34.97	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	5839.42	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.46
10-20	686.77
20-30	1025.21
30-40	1179.05
40-50	1109.35
50-60	843.98
60-70	505.36
70-80	214.26
80-90	34.97
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

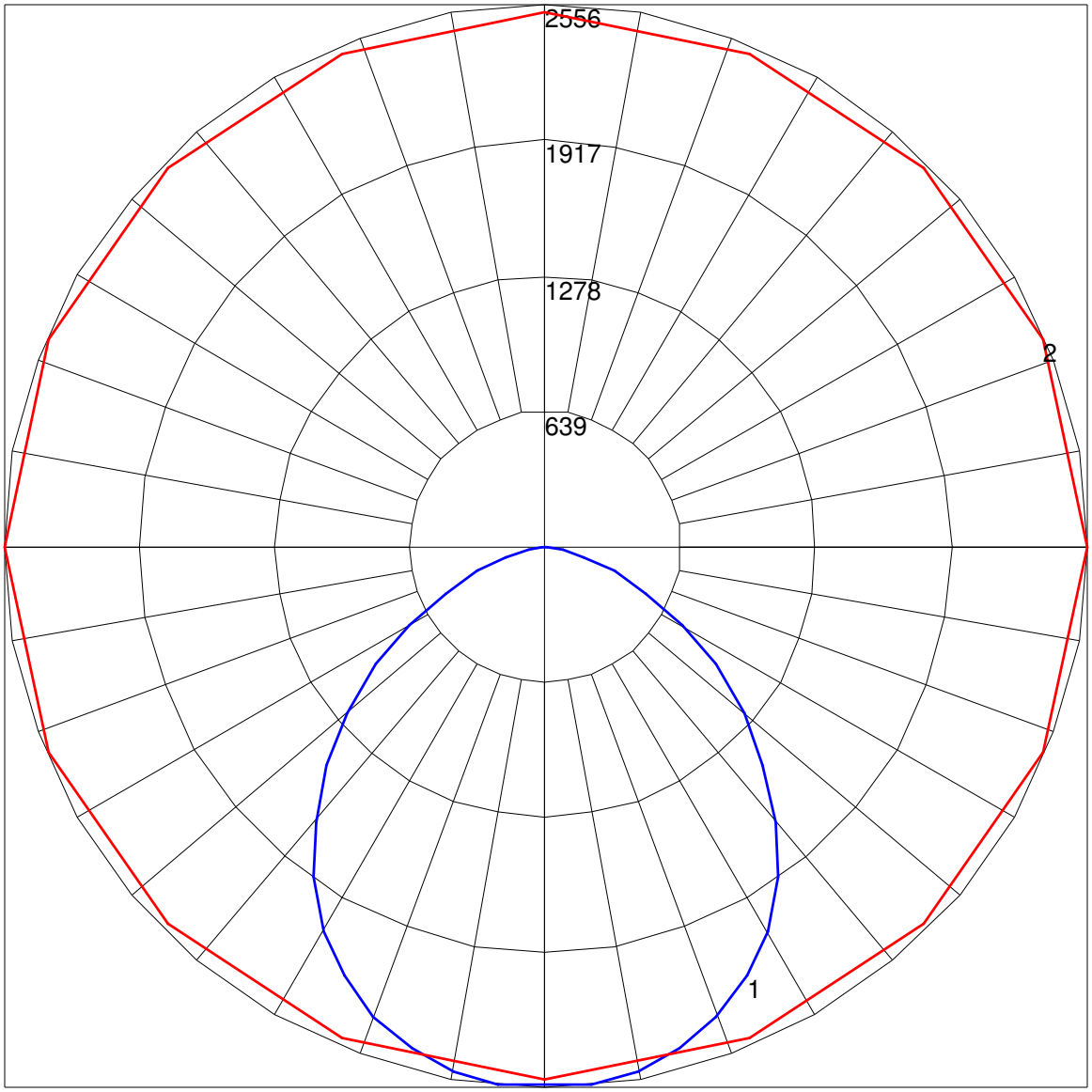
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.6	17.1	16.0	17.4	17.8	15.1	16.7	15.5	17.0	17.3
	3H	16.7	18.1	17.1	18.4	18.7	16.3	17.6	16.6	17.9	18.3
	4H	17.0	18.2	17.4	18.6	19.0	16.6	17.9	17.0	18.2	18.6
	6H	17.1	18.3	17.5	18.6	19.0	16.8	17.9	17.2	18.3	18.7
	8H	17.1	18.2	17.5	18.6	19.0	16.8	17.9	17.2	18.3	18.7
	12H	17.1	18.1	17.5	18.5	18.9	16.8	17.8	17.2	18.2	18.7
4H	2H	16.0	17.3	16.4	17.6	18.0	15.6	16.9	16.0	17.2	17.6
	3H	17.3	18.3	17.7	18.7	19.1	16.9	18.0	17.3	18.4	18.8
	4H	17.6	18.6	18.1	19.0	19.4	17.4	18.3	17.8	18.7	19.1
	6H	17.8	18.6	18.3	19.0	19.5	17.6	18.4	18.1	18.9	19.3
	8H	17.8	18.6	18.2	19.0	19.5	17.6	18.4	18.1	18.8	19.3
	12H	17.8	18.5	18.3	18.9	19.4	17.6	18.3	18.1	18.8	19.3
8H	4H	17.7	18.5	18.2	18.9	19.4	17.5	18.2	17.9	18.7	19.1
	6H	17.9	18.6	18.4	19.0	19.5	17.8	18.4	18.3	18.9	19.4
	8H	18.0	18.5	18.5	19.0	19.5	17.9	18.4	18.4	18.9	19.4
	12H	18.0	18.4	18.5	18.9	19.5	17.9	18.4	18.4	18.9	19.4
12H	4H	17.7	18.4	18.2	18.9	19.3	17.5	18.1	17.9	18.6	19.1
	6H	17.9	18.5	18.5	19.0	19.5	17.8	18.3	18.3	18.8	19.3
	8H	18.0	18.5	18.5	19.0	19.5	17.9	18.4	18.4	18.9	19.4

Maximum UGR = 19.5

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POLAR GRAPH



Maximum Candela = 2556.49 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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