IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-850-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-L60-850-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	6381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	4318	4294	4177
55	3569	3499	3302
65	2588	2557	2373
75	1541	1586	1572
85	336	464	478

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2779.899	2779.899	2779.899	2779.899	2779.899
5	2793.691	2776.221	2759.977	2753.540	2754.153
10	2752.008	2733.005	2722.278	2715.228	2716.454
15	2684.273	2666.802	2661.899	2646.880	2654.543
20	2586.195	2572.096	2572.709	2551.561	2560.449
25	2452.257	2443.981	2439.691	2418.542	2430.189
30	2291.654	2287.363	2272.958	2245.986	2259.166
35	2091.514	2095.805	2069.140	2026.230	2050.750
40	1853.061	1873.597	1830.687	1782.874	1812.298
45	1595.607	1618.900	1587.025	1529.098	1543.809
50	1334.474	1322.521	1326.505	1262.141	1260.302
55	1069.970	1044.224	1048.822	989.362	989.975
60	807.918	789.834	784.931	730.988	740.489
65	571.611	560.271	564.868	523.798	524.104
70	373.922	362.889	376.068	359.517	351.242
75	208.416	206.270	214.546	222.208	212.707
80	88.270	85.205	96.546	110.338	98.691
85	15.325	17.164	21.148	31.262	21.761
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1013.26	N.A.	15.90
0-30	2133.6	N.A.	33.40
0-40	3422.05	N.A.	53.60
0-60	5556.62	N.A.	87.10
0-80	6343.01	N.A.	99.40
0-90	6381.22	N.A.	100.00
10-90	6118.45	N.A.	95.90
20-40	2408.78	N.A.	37.70
20-50	3621.07	N.A.	56.70
40-70	2686.82	N.A.	42.10
60-80	786.39	N.A.	12.30
70-80	234.14	N.A.	3.70
80-90	38.21	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	6381.22	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	262.77
10-20	750.49
20-30	1120.34
30-40	1288.45
40-50	1212.28
50-60	922.29
60-70	552.24
70-80	234.14
80-90	38.21
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

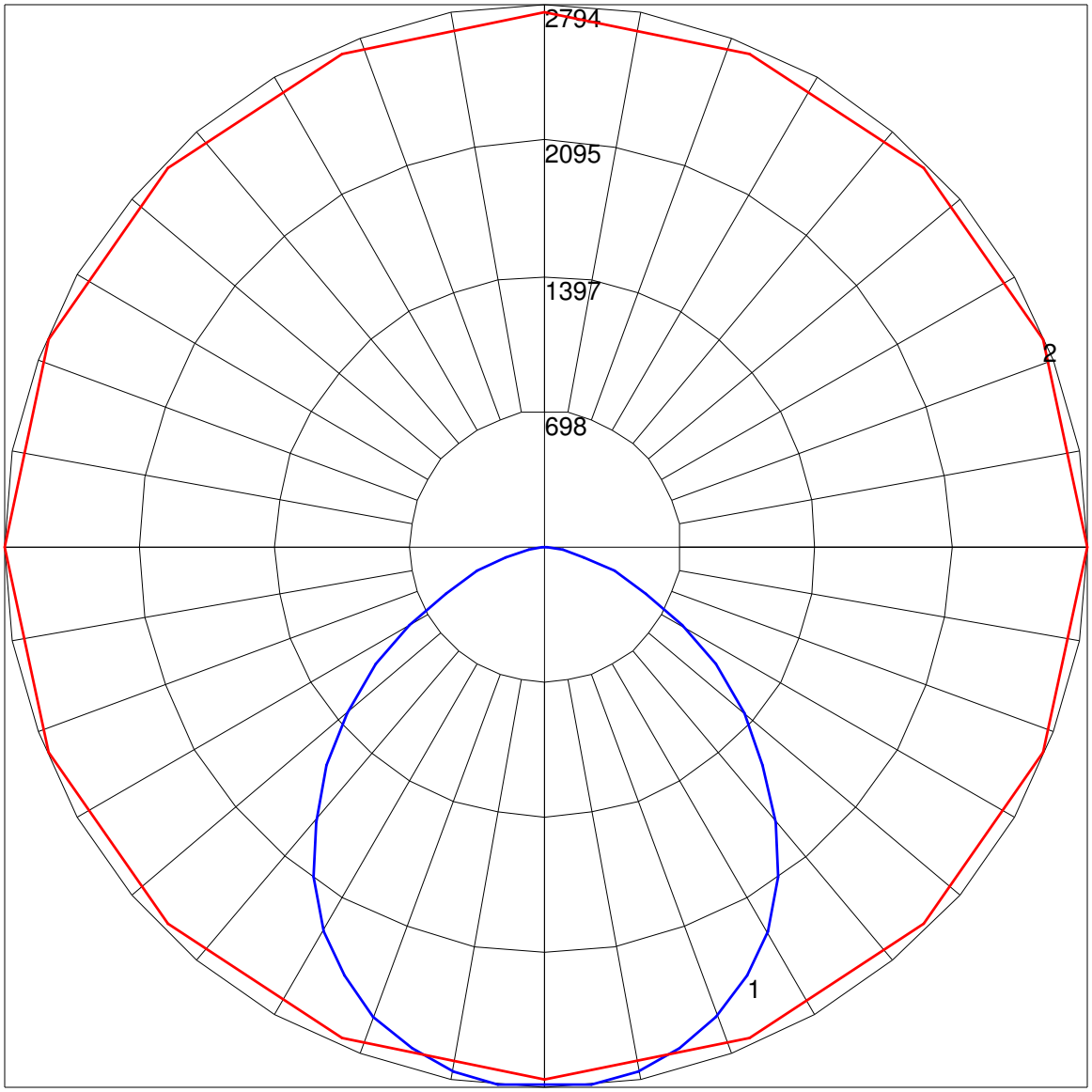
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.4	16.3	17.7	18.1	15.4	17.0	15.8	17.3	17.6
	3H	17.0	18.4	17.4	18.7	19.0	16.6	17.9	16.9	18.2	18.6
	4H	17.3	18.5	17.7	18.9	19.3	16.9	18.2	17.3	18.5	18.9
	6H	17.4	18.6	17.8	18.9	19.3	17.1	18.2	17.5	18.6	19.0
	8H	17.4	18.5	17.8	18.9	19.3	17.1	18.2	17.5	18.6	19.0
	12H	17.4	18.4	17.8	18.8	19.2	17.1	18.1	17.5	18.5	19.0
4H	2H	16.3	17.6	16.7	17.9	18.3	15.9	17.2	16.3	17.5	17.9
	3H	17.6	18.6	18.0	19.0	19.4	17.2	18.3	17.6	18.7	19.1
	4H	17.9	18.9	18.4	19.3	19.7	17.7	18.6	18.1	19.0	19.4
	6H	18.1	18.9	18.6	19.3	19.8	17.9	18.7	18.4	19.2	19.6
	8H	18.1	18.9	18.5	19.3	19.8	17.9	18.7	18.4	19.1	19.6
	12H	18.1	18.8	18.6	19.2	19.7	17.9	18.6	18.4	19.1	19.6
8H	4H	18.0	18.8	18.5	19.2	19.7	17.8	18.5	18.2	19.0	19.4
	6H	18.2	18.9	18.7	19.3	19.8	18.1	18.7	18.6	19.2	19.7
	8H	18.3	18.8	18.8	19.3	19.8	18.2	18.7	18.7	19.2	19.7
	12H	18.3	18.7	18.8	19.2	19.8	18.2	18.7	18.7	19.2	19.7
12H	4H	18.0	18.7	18.5	19.2	19.6	17.8	18.4	18.2	18.9	19.4
	6H	18.2	18.8	18.8	19.3	19.8	18.1	18.6	18.6	19.1	19.6
	8H	18.3	18.8	18.8	19.3	19.8	18.2	18.7	18.7	19.2	19.7

Maximum UGR = 19.8

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POLAR GRAPH



Maximum Candela = 2793.691 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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