IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-935-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] 2026-04-29
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 1x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-14-L31-935-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	2620
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	25.3
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)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2540	2526	2458
55	2100	2058	1943
65	1523	1505	1396
75	906	933	925
85	198	273	281

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1141.356	1141.356	1141.356	1141.356	1141.356
5	1147.019	1139.846	1133.177	1130.534	1130.786
10	1129.905	1122.103	1117.698	1114.804	1115.307
15	1102.094	1094.922	1092.908	1086.742	1089.888
20	1061.826	1056.037	1056.289	1047.606	1051.256
25	1006.835	1003.437	1001.675	992.992	997.774
30	940.895	939.133	933.219	922.145	927.556
35	858.723	860.484	849.536	831.919	841.986
40	760.820	769.251	751.634	732.003	744.084
45	655.116	664.679	651.592	627.809	633.849
50	547.901	542.994	544.629	518.203	517.448
55	439.303	428.732	430.620	406.207	406.459
60	331.711	324.286	322.273	300.125	304.026
65	234.689	230.033	231.921	215.058	215.184
70	153.523	148.993	154.404	147.609	144.211
75	85.570	84.689	88.087	91.233	87.332
80	36.242	34.983	39.639	45.302	40.520
85	6.292	7.047	8.683	12.836	8.935
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	416.02	N.A.	15.90
0-30	876.00	N.A.	33.40
0-40	1405.01	N.A.	53.60
0-60	2281.41	N.A.	87.10
0-80	2604.28	N.A.	99.40
0-90	2619.97	N.A.	100.00
10-90	2512.08	N.A.	95.90
20-40	988.99	N.A.	37.70
20-50	1486.72	N.A.	56.70
40-70	1103.14	N.A.	42.10
60-80	322.87	N.A.	12.30
70-80	96.13	N.A.	3.70
80-90	15.69	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	2619.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.89
10-20	308.13
20-30	459.98
30-40	529.00
40-50	497.73
50-60	378.67
60-70	226.74
70-80	96.13
80-90	15.69
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

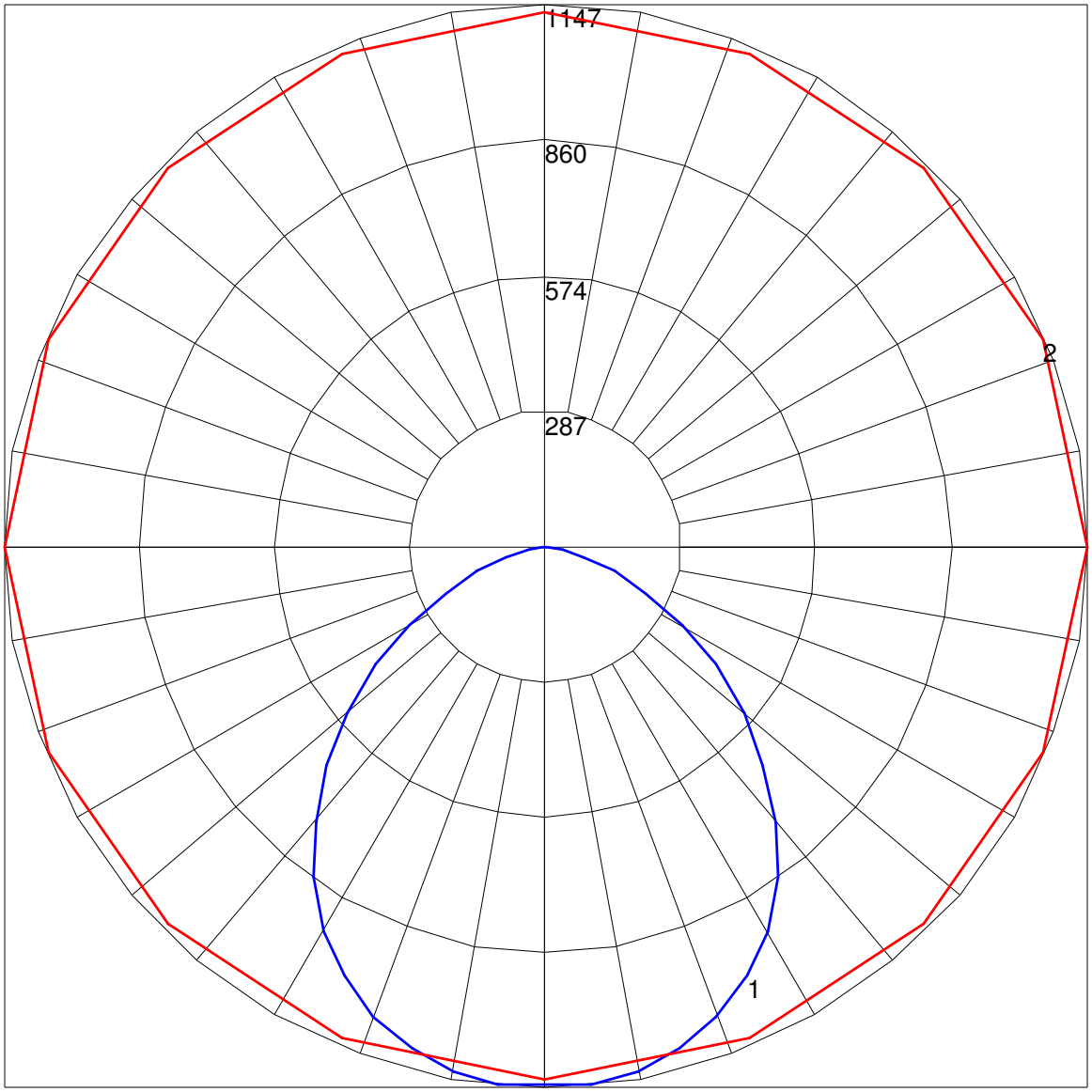
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.1	15.6	14.4	15.9	16.2	13.6	15.1	14.0	15.4	15.7
	3H	15.1	16.5	15.5	16.8	17.2	14.7	16.1	15.1	16.4	16.8
	4H	15.4	16.7	15.8	17.0	17.4	15.0	16.3	15.4	16.7	17.0
	6H	15.5	16.7	15.9	17.1	17.5	15.2	16.4	15.6	16.8	17.1
	8H	15.5	16.7	16.0	17.0	17.4	15.2	16.4	15.7	16.7	17.1
	12H	15.5	16.6	15.9	17.0	17.4	15.2	16.3	15.7	16.7	17.1
4H	2H	14.5	15.7	14.9	16.1	16.5	14.1	15.3	14.5	15.7	16.1
	3H	15.7	16.8	16.1	17.2	17.6	15.4	16.4	15.8	16.8	17.2
	4H	16.1	17.0	16.5	17.4	17.9	15.8	16.7	16.2	17.2	17.6
	6H	16.2	17.1	16.7	17.5	18.0	16.1	16.9	16.5	17.3	17.8
	8H	16.2	17.0	16.7	17.4	17.9	16.1	16.9	16.5	17.3	17.8
	12H	16.2	16.9	16.7	17.4	17.9	16.1	16.8	16.6	17.3	17.7
8H	4H	16.2	16.9	16.6	17.4	17.8	15.9	16.7	16.4	17.1	17.6
	6H	16.4	17.0	16.9	17.5	18.0	16.2	16.9	16.7	17.4	17.8
	8H	16.4	17.0	16.9	17.5	18.0	16.3	16.9	16.8	17.4	17.9
	12H	16.4	16.9	16.9	17.4	18.0	16.3	16.8	16.9	17.3	17.9
12H	4H	16.2	16.8	16.6	17.3	17.8	15.9	16.6	16.4	17.1	17.5
	6H	16.4	16.9	16.9	17.4	17.9	16.2	16.8	16.8	17.3	17.8
	8H	16.4	16.9	16.9	17.4	18.0	16.3	16.8	16.8	17.3	17.9

Maximum UGR = 18.0

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POLAR GRAPH



Maximum Candela = 1147.019 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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