IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-830-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-L31-830-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	3088
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	2994	2978	2897
55	2475	2426	2290
65	1794	1773	1645
75	1068	1100	1090
85	233	322	331

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1345.170	1345.170	1345.170	1345.170	1345.170
5	1351.844	1343.390	1335.530	1332.415	1332.712
10	1331.674	1322.478	1317.288	1313.876	1314.470
15	1298.897	1290.444	1288.071	1280.803	1284.511
20	1251.438	1244.616	1244.912	1234.679	1238.980
25	1186.627	1182.622	1180.546	1170.313	1175.948
30	1108.912	1106.836	1099.865	1086.814	1093.192
35	1012.066	1014.142	1001.239	980.476	992.341
40	896.681	906.618	885.854	862.718	876.956
45	772.101	783.372	767.948	739.918	747.036
50	645.741	639.957	641.885	610.740	609.850
55	517.750	505.291	507.516	478.744	479.041
60	390.945	382.194	379.821	353.719	358.316
65	276.598	271.110	273.335	253.461	253.610
70	180.938	175.599	181.976	173.967	169.963
75	100.851	99.812	103.817	107.525	102.927
80	42.713	41.230	46.718	53.392	47.756
85	7.415	8.305	10.233	15.128	10.530
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	490.31	N.A.	15.90
0-30	1032.43	N.A.	33.40
0-40	1655.9	N.A.	53.60
0-60	2688.8	N.A.	87.10
0-80	3069.33	N.A.	99.40
0-90	3087.82	N.A.	100.00
10-90	2960.67	N.A.	95.90
20-40	1165.59	N.A.	37.70
20-50	1752.2	N.A.	56.70
40-70	1300.13	N.A.	42.10
60-80	380.53	N.A.	12.30
70-80	113.30	N.A.	3.70
80-90	18.49	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	3087.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.15
10-20	363.16
20-30	542.12
30-40	623.47
40-50	586.61
50-60	446.29
60-70	267.23
70-80	113.30
80-90	18.49
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

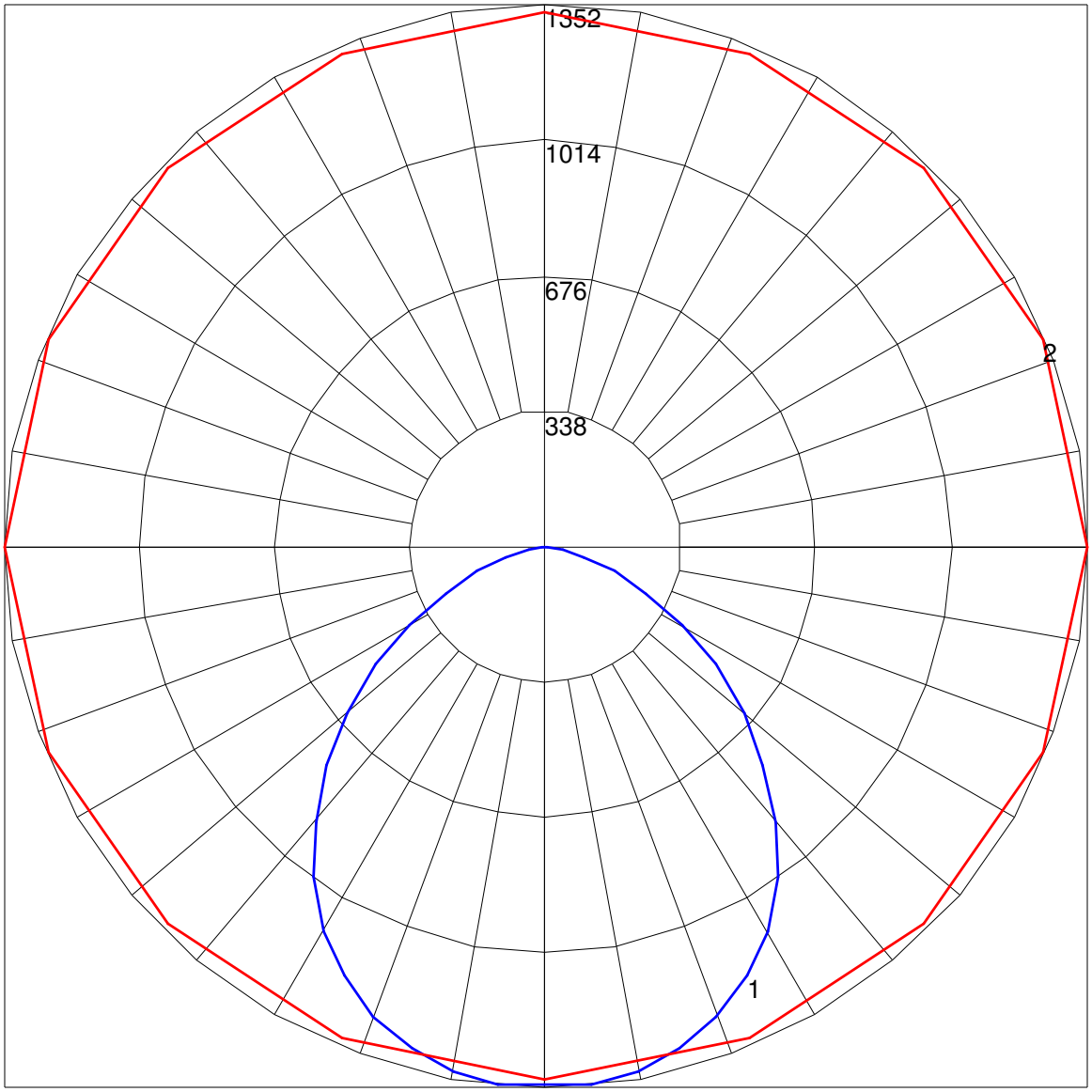
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.7	16.2	15.0	16.5	16.8	14.2	15.7	14.6	16.0	16.3
	3H	15.7	17.1	16.1	17.4	17.8	15.3	16.7	15.7	17.0	17.4
	4H	16.0	17.3	16.4	17.6	18.0	15.6	16.9	16.0	17.3	17.6
	6H	16.1	17.3	16.5	17.7	18.1	15.8	17.0	16.2	17.4	17.7
	8H	16.1	17.3	16.6	17.6	18.0	15.8	17.0	16.3	17.3	17.7
	12H	16.1	17.2	16.5	17.6	18.0	15.8	16.9	16.3	17.3	17.7
4H	2H	15.1	16.3	15.5	16.7	17.1	14.7	15.9	15.1	16.3	16.7
	3H	16.3	17.4	16.7	17.8	18.2	16.0	17.0	16.4	17.4	17.8
	4H	16.7	17.6	17.1	18.0	18.5	16.4	17.3	16.8	17.8	18.2
	6H	16.8	17.7	17.3	18.1	18.6	16.7	17.5	17.1	17.9	18.4
	8H	16.8	17.6	17.3	18.0	18.5	16.7	17.5	17.1	17.9	18.4
	12H	16.8	17.5	17.3	18.0	18.5	16.7	17.4	17.2	17.9	18.3
8H	4H	16.8	17.5	17.2	18.0	18.4	16.5	17.3	17.0	17.7	18.2
	6H	17.0	17.6	17.5	18.1	18.6	16.8	17.5	17.3	18.0	18.4
	8H	17.0	17.6	17.5	18.1	18.6	16.9	17.5	17.4	18.0	18.5
	12H	17.0	17.5	17.5	18.0	18.6	16.9	17.4	17.5	17.9	18.5
12H	4H	16.8	17.4	17.2	17.9	18.4	16.5	17.2	17.0	17.7	18.1
	6H	17.0	17.5	17.5	18.0	18.5	16.8	17.4	17.4	17.9	18.4
	8H	17.0	17.5	17.5	18.0	18.6	16.9	17.4	17.4	17.9	18.5

Maximum UGR = 18.6

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POLAR GRAPH



Maximum Candela = 1351.844 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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