IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-940-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-L68-940-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	5782
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	60.5
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	5605	5575	5424
55	4634	4542	4288
65	3360	3320	3081
75	2000	2059	2042
85	437	603	620

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2518.733	2518.733	2518.733	2518.733	2518.733
5	2531.229	2515.400	2500.682	2494.850	2495.406
10	2493.462	2476.245	2466.525	2460.138	2461.249
15	2432.090	2416.262	2411.818	2398.211	2405.154
20	2343.227	2330.452	2331.008	2311.847	2319.900
25	2221.872	2214.374	2210.486	2191.325	2201.878
30	2076.358	2072.470	2059.418	2034.980	2046.921
35	1895.020	1898.908	1874.748	1835.870	1858.086
40	1678.970	1697.576	1658.698	1615.377	1642.036
45	1445.703	1466.808	1437.927	1385.442	1398.771
50	1209.103	1198.272	1201.883	1143.566	1141.899
55	969.448	946.121	950.287	896.413	896.969
60	732.015	715.631	711.188	662.313	670.921
65	517.909	507.634	511.800	474.588	474.866
70	338.793	328.796	340.737	325.741	318.243
75	188.836	186.892	194.390	201.332	192.723
80	79.977	77.200	87.475	99.972	89.419
85	13.885	15.551	19.161	28.325	19.717
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	918.07	N.A.	15.90
0-30	1933.15	N.A.	33.40
0-40	3100.55	N.A.	53.60
0-60	5034.59	N.A.	87.10
0-80	5747.1	N.A.	99.40
0-90	5781.72	N.A.	100.00
10-90	5543.63	N.A.	95.90
20-40	2182.48	N.A.	37.70
20-50	3280.87	N.A.	56.70
40-70	2434.4	N.A.	42.10
60-80	712.51	N.A.	12.30
70-80	212.15	N.A.	3.70
80-90	34.62	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	5781.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.08
10-20	679.99
20-30	1015.08
30-40	1167.4
40-50	1098.39
50-60	835.64
60-70	500.36
70-80	212.15
80-90	34.62
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

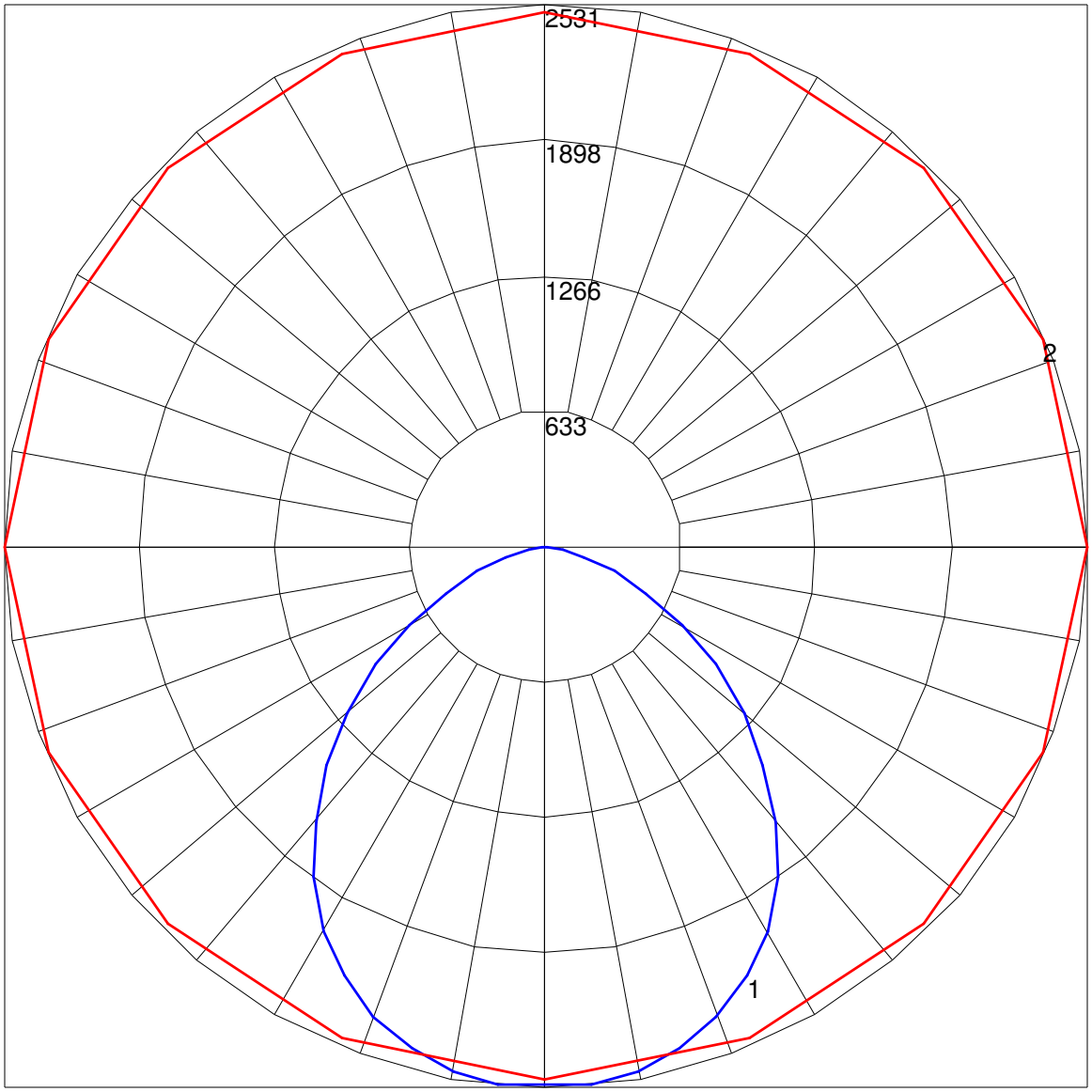
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.9	18.4	17.2	18.7	19.0	16.4	17.9	16.8	18.2	18.5
	3H	17.9	19.3	18.3	19.6	20.0	17.5	18.9	17.9	19.2	19.6
	4H	18.2	19.5	18.6	19.8	20.2	17.8	19.1	18.2	19.5	19.8
	6H	18.3	19.5	18.7	19.9	20.3	18.0	19.2	18.4	19.6	19.9
	8H	18.3	19.5	18.8	19.8	20.2	18.0	19.2	18.5	19.5	19.9
	12H	18.3	19.4	18.7	19.8	20.2	18.0	19.1	18.5	19.5	19.9
4H	2H	17.3	18.5	17.7	18.9	19.3	16.9	18.1	17.3	18.5	18.9
	3H	18.5	19.6	18.9	20.0	20.4	18.2	19.2	18.6	19.6	20.0
	4H	18.9	19.8	19.3	20.2	20.7	18.6	19.5	19.0	20.0	20.4
	6H	19.0	19.9	19.5	20.3	20.8	18.9	19.7	19.3	20.1	20.6
	8H	19.0	19.8	19.5	20.2	20.7	18.9	19.7	19.3	20.1	20.6
	12H	19.0	19.7	19.5	20.2	20.7	18.9	19.6	19.4	20.1	20.5
8H	4H	19.0	19.7	19.4	20.2	20.6	18.7	19.5	19.2	19.9	20.4
	6H	19.2	19.8	19.7	20.3	20.8	19.0	19.7	19.5	20.2	20.6
	8H	19.2	19.8	19.7	20.3	20.8	19.1	19.7	19.6	20.2	20.7
	12H	19.2	19.7	19.7	20.2	20.8	19.1	19.6	19.7	20.1	20.7
12H	4H	19.0	19.6	19.4	20.1	20.6	18.7	19.4	19.2	19.9	20.3
	6H	19.2	19.7	19.7	20.2	20.7	19.0	19.6	19.6	20.1	20.6
	8H	19.2	19.7	19.7	20.2	20.8	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 20.8

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POLAR GRAPH



Maximum Candela = 2531.229 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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