IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-930-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-L68-930-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	5646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	5474	5444	5296
55	4525	4435	4187
65	3281	3242	3008
75	1953	2011	1994
85	426	589	606

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2459.468	2459.468	2459.468	2459.468	2459.468
5	2471.671	2456.214	2441.843	2436.148	2436.690
10	2434.792	2417.980	2408.489	2402.252	2403.337
15	2374.865	2359.408	2355.070	2341.783	2348.562
20	2288.092	2275.618	2276.161	2257.450	2265.314
25	2169.593	2162.271	2158.475	2139.765	2150.069
30	2027.502	2023.706	2010.961	1987.099	1998.759
35	1850.431	1854.228	1830.636	1792.673	1814.366
40	1639.465	1657.633	1619.670	1577.368	1603.400
45	1411.686	1432.295	1404.093	1352.843	1365.859
50	1180.653	1170.078	1173.603	1116.658	1115.031
55	946.638	923.860	927.927	875.321	875.864
60	714.791	698.793	694.454	646.729	655.135
65	505.723	495.690	499.757	463.421	463.692
70	330.822	321.060	332.720	318.077	310.755
75	184.392	182.494	189.816	196.595	188.189
80	78.096	75.384	85.417	97.619	87.315
85	13.558	15.185	18.710	27.659	19.253
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	896.47	N.A.	15.90
0-30	1887.67	N.A.	33.40
0-40	3027.6	N.A.	53.60
0-60	4916.13	N.A.	87.10
0-80	5611.87	N.A.	99.40
0-90	5645.68	N.A.	100.00
10-90	5413.2	N.A.	95.90
20-40	2131.13	N.A.	37.70
20-50	3203.68	N.A.	56.70
40-70	2377.12	N.A.	42.10
60-80	695.74	N.A.	12.30
70-80	207.15	N.A.	3.70
80-90	33.81	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	5645.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	232.48
10-20	663.99
20-30	991.20
30-40	1139.93
40-50	1072.55
50-60	815.98
60-70	488.59
70-80	207.15
80-90	33.81
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

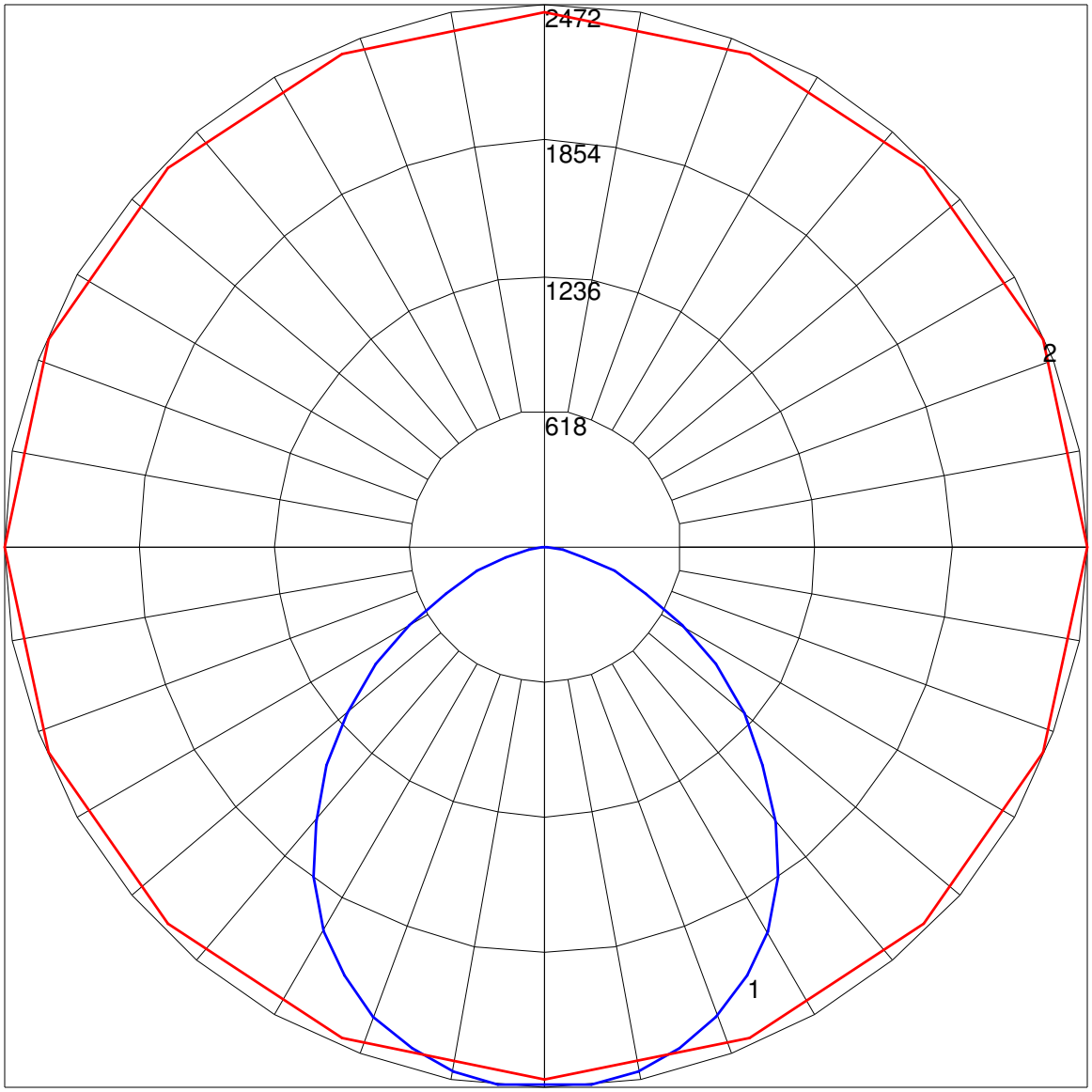
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.8	18.3	17.1	18.6	18.9	16.3	17.8	16.7	18.1	18.4
	3H	17.8	19.2	18.2	19.5	19.9	17.4	18.8	17.8	19.1	19.5
	4H	18.1	19.4	18.5	19.7	20.1	17.7	19.0	18.1	19.4	19.7
	6H	18.2	19.4	18.6	19.8	20.2	17.9	19.1	18.3	19.5	19.8
	8H	18.2	19.4	18.7	19.7	20.1	17.9	19.1	18.4	19.4	19.8
	12H	18.2	19.3	18.6	19.7	20.1	17.9	19.0	18.4	19.4	19.8
4H	2H	17.2	18.4	17.6	18.8	19.2	16.8	18.0	17.2	18.4	18.8
	3H	18.4	19.5	18.8	19.9	20.3	18.1	19.1	18.5	19.5	19.9
	4H	18.8	19.7	19.2	20.1	20.6	18.5	19.4	18.9	19.9	20.3
	6H	18.9	19.8	19.4	20.2	20.7	18.8	19.6	19.2	20.0	20.5
	8H	18.9	19.7	19.4	20.1	20.6	18.8	19.6	19.2	20.0	20.5
	12H	18.9	19.6	19.4	20.1	20.6	18.8	19.5	19.3	20.0	20.4
8H	4H	18.9	19.6	19.3	20.1	20.5	18.6	19.4	19.1	19.8	20.3
	6H	19.1	19.7	19.6	20.2	20.7	18.9	19.6	19.4	20.1	20.5
	8H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.1	20.6
	12H	19.1	19.6	19.6	20.1	20.7	19.0	19.5	19.6	20.0	20.6
12H	4H	18.9	19.5	19.3	20.0	20.5	18.6	19.3	19.1	19.8	20.2
	6H	19.1	19.6	19.6	20.1	20.6	18.9	19.5	19.5	20.0	20.5
	8H	19.1	19.6	19.6	20.1	20.7	19.0	19.5	19.5	20.0	20.6

Maximum UGR = 20.7

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POLAR GRAPH



Maximum Candela = 2471.671 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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