IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-840-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-L31-840-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	3213
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	3115	3098	3014
55	2575	2524	2382
65	1867	1845	1712
75	1111	1144	1134
85	243	335	345

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1399.520	1399.520	1399.520	1399.520	1399.520
5	1406.464	1397.668	1389.490	1386.250	1386.559
10	1385.479	1375.912	1370.511	1366.962	1367.580
15	1351.378	1342.583	1340.114	1332.553	1336.411
20	1302.001	1294.903	1295.212	1284.565	1289.040
25	1234.571	1230.405	1228.245	1217.598	1223.461
30	1153.717	1151.557	1144.304	1130.726	1137.361
35	1052.958	1055.118	1041.694	1020.091	1032.435
40	932.911	943.249	921.646	897.575	912.388
45	803.297	815.024	798.976	769.813	777.220
50	671.831	665.814	667.820	635.416	634.490
55	538.669	525.707	528.022	498.087	498.396
60	406.740	397.637	395.168	368.011	372.794
65	287.773	282.064	284.379	263.702	263.857
70	188.249	182.694	189.329	180.996	176.830
75	104.925	103.845	108.011	111.869	107.086
80	44.439	42.896	48.605	55.549	49.685
85	7.715	8.641	10.647	15.739	10.955
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	510.12	N.A.	15.90
0-30	1074.15	N.A.	33.40
0-40	1722.81	N.A.	53.60
0-60	2797.44	N.A.	87.10
0-80	3193.34	N.A.	99.40
0-90	3212.58	N.A.	100.00
10-90	3080.29	N.A.	95.90
20-40	1212.69	N.A.	37.70
20-50	1823.00	N.A.	56.70
40-70	1352.66	N.A.	42.10
60-80	395.90	N.A.	12.30
70-80	117.88	N.A.	3.70
80-90	19.24	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	3212.58	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.29
10-20	377.83
20-30	564.03
30-40	648.66
40-50	610.31
50-60	464.32
60-70	278.02
70-80	117.88
80-90	19.24
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

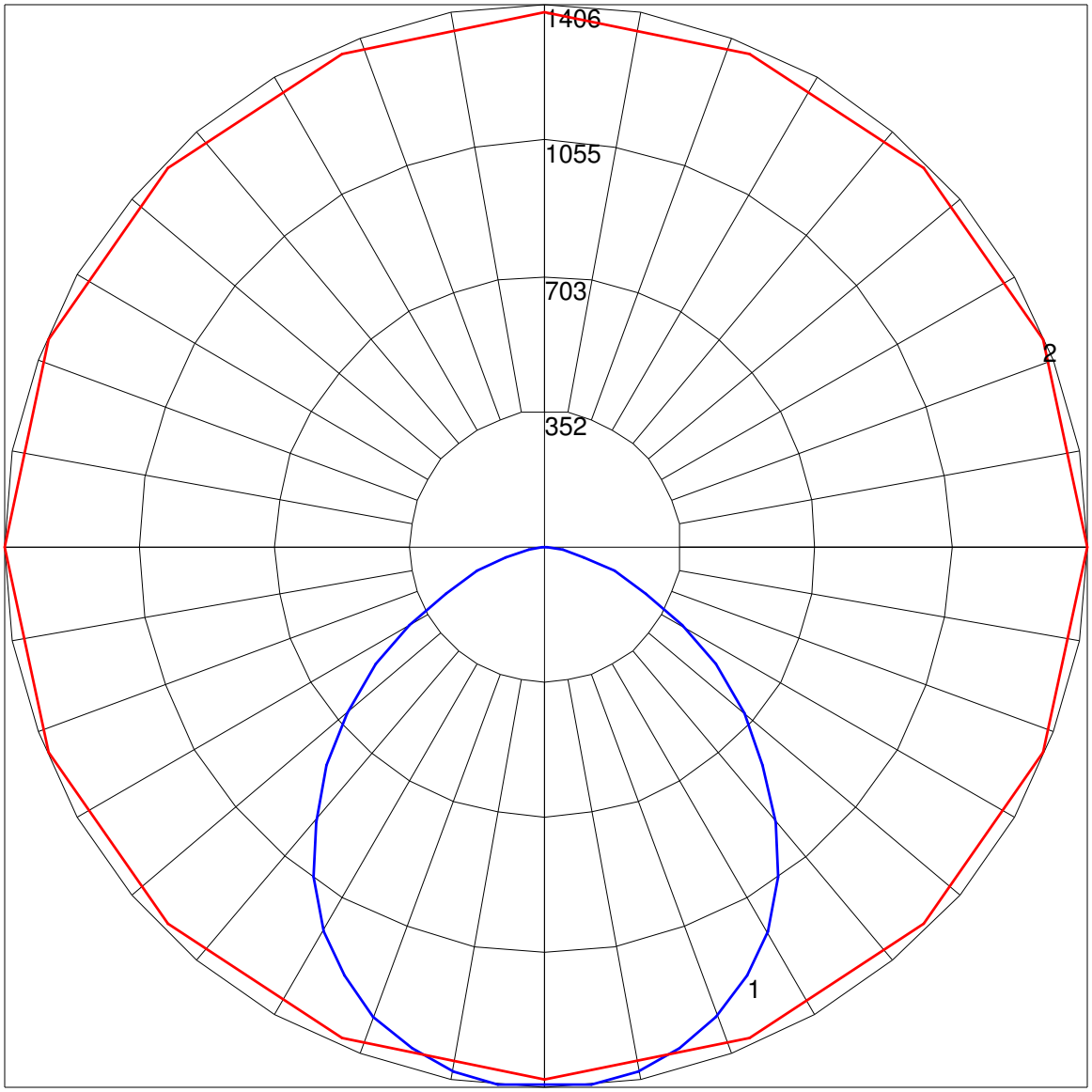
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.9	16.4	15.2	16.7	17.0	14.4	15.9	14.8	16.2	16.5
	3H	15.9	17.3	16.3	17.6	18.0	15.5	16.9	15.9	17.2	17.6
	4H	16.2	17.5	16.6	17.8	18.2	15.8	17.1	16.2	17.5	17.8
	6H	16.3	17.5	16.7	17.9	18.3	16.0	17.2	16.4	17.6	17.9
	8H	16.3	17.5	16.8	17.8	18.2	16.0	17.2	16.5	17.5	17.9
	12H	16.3	17.4	16.7	17.8	18.2	16.0	17.1	16.5	17.5	17.9
4H	2H	15.3	16.5	15.7	16.9	17.3	14.9	16.1	15.3	16.5	16.9
	3H	16.5	17.6	16.9	18.0	18.4	16.2	17.2	16.6	17.6	18.0
	4H	16.9	17.8	17.3	18.2	18.7	16.6	17.5	17.0	18.0	18.4
	6H	17.0	17.9	17.5	18.3	18.8	16.9	17.7	17.3	18.1	18.6
	8H	17.0	17.8	17.5	18.2	18.7	16.9	17.7	17.3	18.1	18.6
	12H	17.0	17.7	17.5	18.2	18.7	16.9	17.6	17.4	18.1	18.5
8H	4H	17.0	17.7	17.4	18.2	18.6	16.7	17.5	17.2	17.9	18.4
	6H	17.2	17.8	17.7	18.3	18.8	17.0	17.7	17.5	18.2	18.6
	8H	17.2	17.8	17.7	18.3	18.8	17.1	17.7	17.6	18.2	18.7
	12H	17.2	17.7	17.7	18.2	18.8	17.1	17.6	17.7	18.1	18.7
12H	4H	17.0	17.6	17.4	18.1	18.6	16.7	17.4	17.2	17.9	18.3
	6H	17.2	17.7	17.7	18.2	18.7	17.0	17.6	17.6	18.1	18.6
	8H	17.2	17.7	17.7	18.2	18.8	17.1	17.6	17.6	18.1	18.7

Maximum UGR = 18.8

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POLAR GRAPH



Maximum Candela = 1406.464 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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