IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19833.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L30-950-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	2702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	27.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4059	4048	4106
55	3229	3167	3182
65	2391	2263	2260
75	1607	1379	1417
85	523	311	508

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1201.241	1201.241	1201.241	1201.241	1201.241
5	1198.126	1197.843	1196.993	1194.444	1194.444
10	1177.454	1180.852	1180.002	1178.303	1176.887
15	1145.455	1150.269	1149.702	1152.251	1150.269
20	1101.279	1106.942	1106.376	1117.420	1110.341
25	1039.829	1047.758	1053.988	1063.899	1053.139
30	963.371	977.813	984.610	988.574	980.079
35	873.038	891.444	894.842	889.179	886.064
40	773.642	781.854	782.421	778.739	784.120
45	660.371	660.088	658.672	657.539	668.017
50	543.702	535.489	537.472	532.941	541.719
55	426.183	420.236	417.971	420.236	419.953
60	318.858	312.628	312.345	316.593	315.743
65	232.489	228.525	220.029	227.958	219.746
70	156.314	155.748	141.589	154.332	141.872
75	95.714	92.033	82.122	90.617	84.387
80	43.326	42.477	35.114	38.795	41.061
85	10.478	11.327	6.230	7.929	10.194
90	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	437.99	N.A.	16.20
0-30	922.13	N.A.	34.10
0-40	1475.91	N.A.	54.60
0-60	2362.69	N.A.	87.50
0-80	2686.01	N.A.	99.40
0-90	2701.67	N.A.	100.00
10-90	2588.03	N.A.	95.80
20-40	1037.93	N.A.	38.40
20-50	1546.59	N.A.	57.20
40-70	1113.31	N.A.	41.20
60-80	323.32	N.A.	12.00
70-80	96.79	N.A.	3.60
80-90	15.66	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	2701.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.64
10-20	324.35
20-30	484.14
30-40	553.79
40-50	508.67
50-60	378.11
60-70	226.53
70-80	96.79
80-90	15.66
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

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	50
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

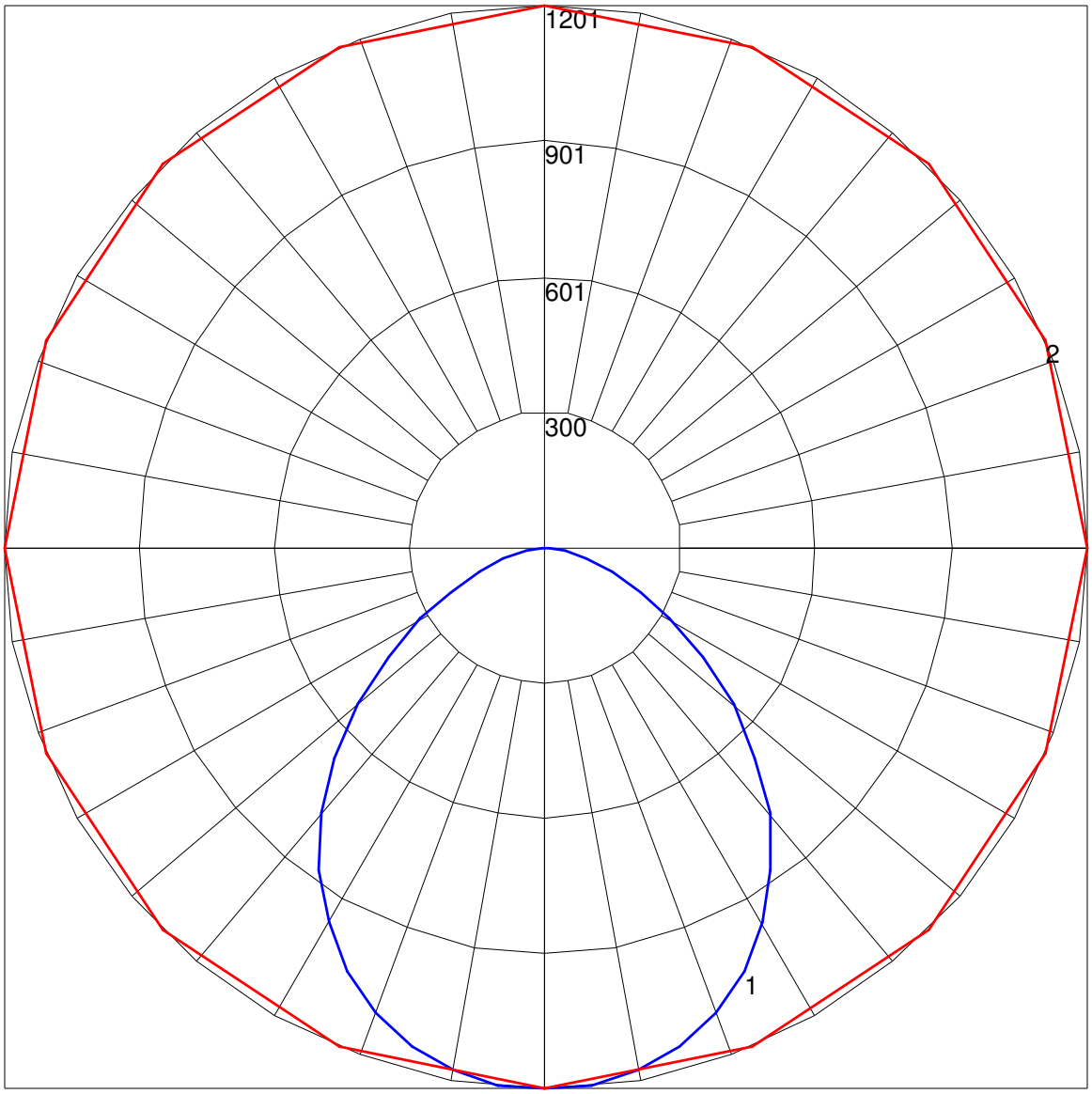
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.5	17.0	15.8	17.3	17.6	15.5	17.0	15.9	17.3	17.6
	3H	16.6	18.0	17.0	18.3	18.7	16.6	17.9	16.9	18.2	18.6
	4H	17.0	18.3	17.4	18.6	19.0	16.9	18.1	17.3	18.5	18.9
	6H	17.2	18.3	17.6	18.7	19.1	17.0	18.2	17.4	18.5	18.9
	8H	17.2	18.3	17.6	18.7	19.1	17.0	18.1	17.4	18.5	18.9
	12H	17.2	18.2	17.6	18.6	19.1	17.0	18.1	17.5	18.5	18.9
4H	2H	15.8	17.1	16.2	17.5	17.8	15.9	17.1	16.3	17.5	17.8
	3H	17.2	18.2	17.6	18.6	19.0	17.1	18.2	17.6	18.6	19.0
	4H	17.6	18.6	18.1	19.0	19.4	17.5	18.5	17.9	18.9	19.3
	6H	17.9	18.7	18.3	19.1	19.6	17.7	18.5	18.2	19.0	19.4
	8H	17.9	18.7	18.4	19.1	19.6	17.8	18.5	18.2	19.0	19.4
	12H	17.9	18.6	18.4	19.1	19.5	17.8	18.4	18.3	18.9	19.4
8H	4H	17.7	18.5	18.2	18.9	19.4	17.6	18.4	18.1	18.8	19.3
	6H	18.0	18.6	18.5	19.1	19.6	17.9	18.5	18.4	19.0	19.5
	8H	18.1	18.6	18.6	19.1	19.6	17.9	18.5	18.4	19.0	19.5
	12H	18.1	18.6	18.6	19.1	19.7	17.9	18.4	18.4	18.9	19.5
12H	4H	17.7	18.4	18.2	18.9	19.3	17.6	18.3	18.1	18.8	19.2
	6H	18.0	18.6	18.5	19.0	19.6	17.9	18.4	18.4	18.9	19.4
	8H	18.1	18.6	18.6	19.1	19.6	17.9	18.4	18.4	18.9	19.5

Maximum UGR = 19.7

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-950-CS-SAF12125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1201.241 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.