IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-827-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-L31-827-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	3025
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	2933	2917	2838
55	2425	2377	2244
65	1758	1737	1612
75	1047	1078	1068
85	229	315	325

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-14-L31-827-CS-SAF12125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1317.994	1317.994	1317.994	1317.994	1317.994
5	1324.534	1316.251	1308.549	1305.497	1305.788
10	1304.771	1295.761	1290.675	1287.333	1287.914
15	1272.657	1264.374	1262.049	1254.928	1258.561
20	1226.156	1219.472	1219.762	1209.736	1213.950
25	1162.654	1158.731	1156.696	1146.670	1152.192
30	1086.510	1084.475	1077.646	1064.858	1071.107
35	991.620	993.654	981.012	960.668	972.293
40	878.566	888.302	867.958	845.289	859.239
45	756.503	767.546	752.434	724.970	731.945
50	632.695	627.028	628.917	598.401	597.530
55	507.290	495.083	497.263	469.072	469.363
60	383.047	374.473	372.148	346.573	351.078
65	271.010	265.633	267.813	248.341	248.486
70	177.283	172.051	178.300	170.453	166.529
75	98.813	97.796	101.720	105.352	100.848
80	41.850	40.397	45.774	52.313	46.791
85	7.266	8.138	10.027	14.822	10.317
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-14-L31-827-CS-SAF12125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	480.40	N.A.	15.90
0-30	1011.57	N.A.	33.40
0-40	1622.45	N.A.	53.60
0-60	2634.48	N.A.	87.10
0-80	3007.32	N.A.	99.40
0-90	3025.44	N.A.	100.00
10-90	2900.86	N.A.	95.90
20-40	1142.04	N.A.	37.70
20-50	1716.81	N.A.	56.70
40-70	1273.86	N.A.	42.10
60-80	372.84	N.A.	12.30
70-80	111.01	N.A.	3.70
80-90	18.12	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	3025.44	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.58
10-20	355.82
20-30	531.17
30-40	610.87
40-50	574.76
50-60	437.27
60-70	261.83
70-80	111.01
80-90	18.12
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-14-L31-827-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	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

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-14-L31-827-CS-SAF12125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

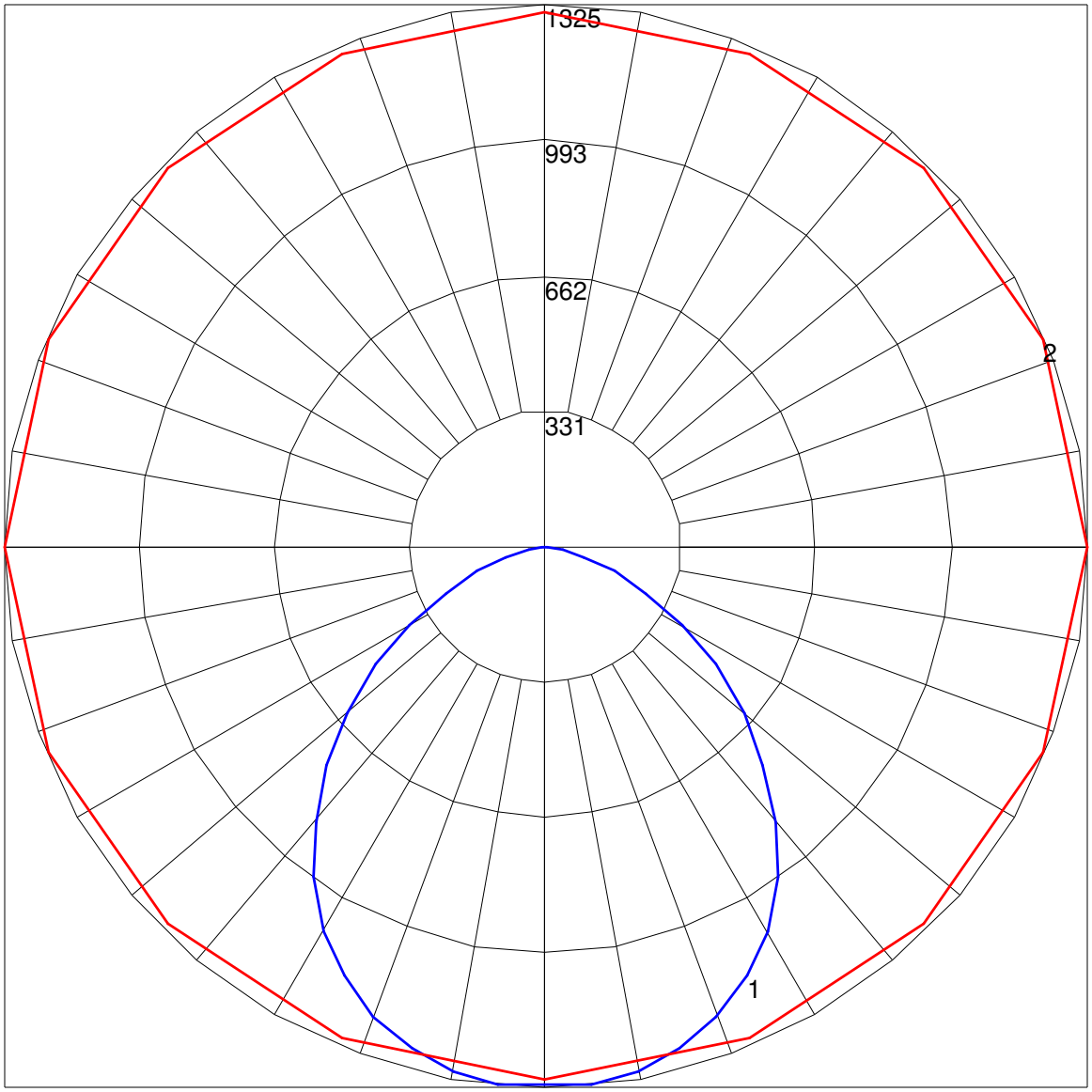
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.6	16.1	14.9	16.4	16.7	14.1	15.6	14.5	15.9	16.2
	3H	15.6	17.0	16.0	17.3	17.7	15.2	16.6	15.6	16.9	17.3
	4H	15.9	17.2	16.3	17.5	17.9	15.5	16.8	15.9	17.2	17.5
	6H	16.0	17.2	16.4	17.6	18.0	15.7	16.9	16.1	17.3	17.6
	8H	16.0	17.2	16.5	17.5	17.9	15.7	16.9	16.2	17.2	17.6
	12H	16.0	17.1	16.4	17.5	17.9	15.7	16.8	16.2	17.2	17.6
4H	2H	15.0	16.2	15.4	16.6	17.0	14.6	15.8	15.0	16.2	16.6
	3H	16.2	17.3	16.6	17.7	18.1	15.9	16.9	16.3	17.3	17.7
	4H	16.6	17.5	17.0	17.9	18.4	16.3	17.2	16.7	17.7	18.1
	6H	16.7	17.6	17.2	18.0	18.5	16.6	17.4	17.0	17.8	18.3
	8H	16.7	17.5	17.2	17.9	18.4	16.6	17.4	17.0	17.8	18.3
	12H	16.7	17.4	17.2	17.9	18.4	16.6	17.3	17.1	17.8	18.2
8H	4H	16.7	17.4	17.1	17.9	18.3	16.4	17.2	16.9	17.6	18.1
	6H	16.9	17.5	17.4	18.0	18.5	16.7	17.4	17.2	17.8	18.3
	8H	16.9	17.5	17.4	18.0	18.5	16.8	17.4	17.3	17.9	18.4
	12H	16.9	17.4	17.4	17.9	18.5	16.8	17.3	17.4	17.8	18.4
12H	4H	16.7	17.3	17.1	17.8	18.3	16.4	17.1	16.9	17.6	18.0
	6H	16.9	17.4	17.4	17.9	18.4	16.7	17.3	17.3	17.8	18.3
	8H	16.9	17.4	17.4	17.9	18.5	16.8	17.3	17.3	17.8	18.4

Maximum UGR = 18.5

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-14-L31-827-CS-SAF12125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1324.534 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.)

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.