IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-835-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-L31-835-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	3119
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	3024	3008	2926
55	2500	2450	2313
65	1813	1791	1662
75	1079	1111	1101
85	236	325	335

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-L31-835-CS-SAF12125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1358.758	1358.758	1358.758	1358.758	1358.758
5	1365.499	1356.960	1349.020	1345.874	1346.174
10	1345.125	1335.837	1330.594	1327.148	1327.747
15	1312.018	1303.479	1301.082	1293.741	1297.486
20	1264.079	1257.188	1257.488	1247.151	1251.495
25	1198.613	1194.568	1192.471	1182.134	1187.827
30	1120.114	1118.016	1110.975	1097.792	1104.234
35	1022.289	1024.386	1011.353	990.380	1002.365
40	905.739	915.776	894.803	871.433	885.814
45	779.900	791.285	775.705	747.392	754.582
50	652.264	646.421	648.369	616.909	616.010
55	522.979	510.396	512.643	483.580	483.880
60	394.894	386.055	383.658	357.292	361.936
65	279.392	273.849	276.096	256.022	256.172
70	182.766	177.373	183.814	175.725	171.680
75	101.869	100.821	104.866	108.611	103.967
80	43.145	41.647	47.189	53.931	48.238
85	7.490	8.389	10.337	15.280	10.636
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-L31-835-CS-SAF12125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	495.26	N.A.	15.90
0-30	1042.86	N.A.	33.40
0-40	1672.63	N.A.	53.60
0-60	2715.96	N.A.	87.10
0-80	3100.33	N.A.	99.40
0-90	3119.01	N.A.	100.00
10-90	2990.57	N.A.	95.90
20-40	1177.36	N.A.	37.70
20-50	1769.9	N.A.	56.70
40-70	1313.26	N.A.	42.10
60-80	384.37	N.A.	12.30
70-80	114.44	N.A.	3.70
80-90	18.68	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	3119.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.44
10-20	366.83
20-30	547.60
30-40	629.77
40-50	592.54
50-60	450.80
60-70	269.93
70-80	114.44
80-90	18.68
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-L31-835-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-L31-835-CS-SAF12125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

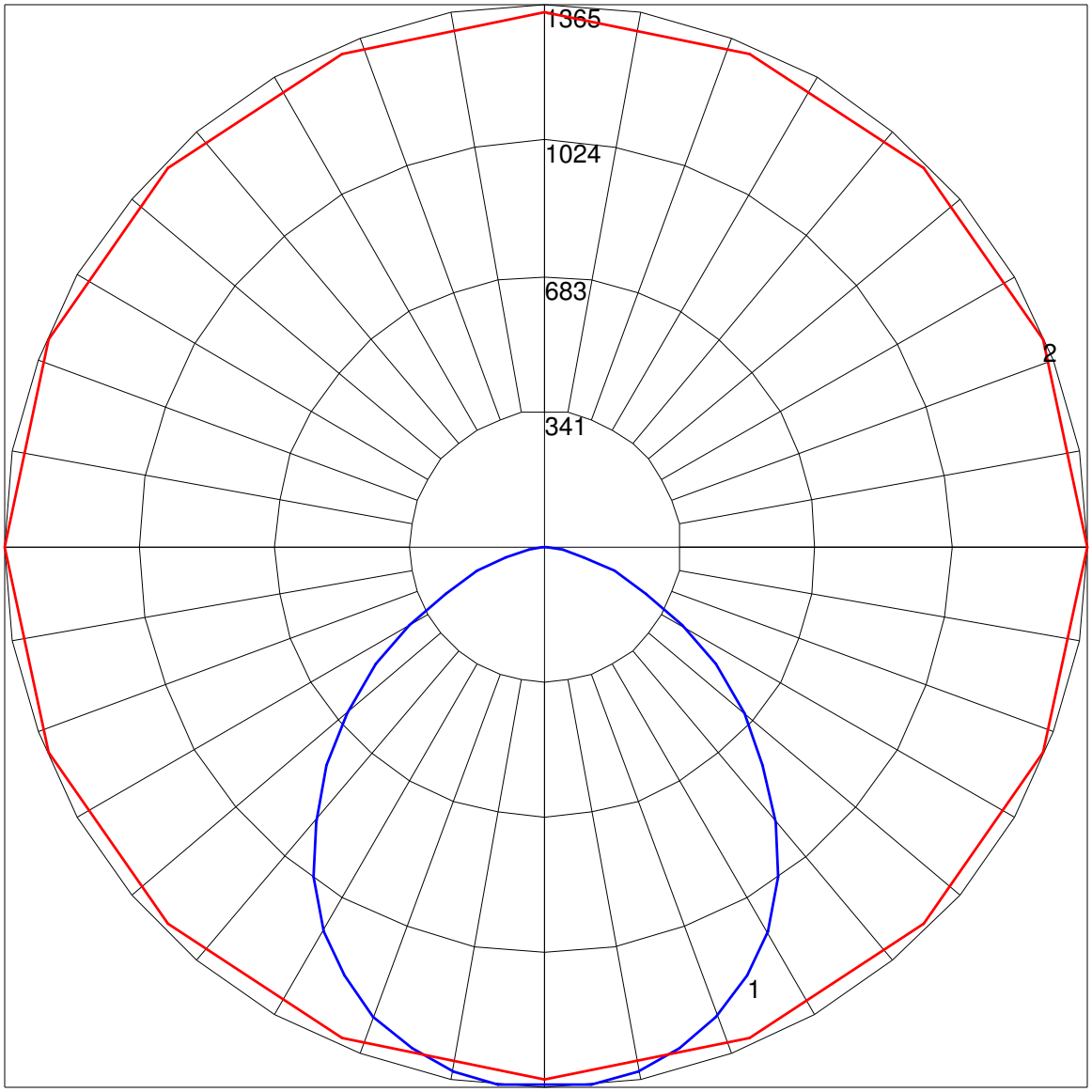
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.8	16.3	15.1	16.6	16.9	14.3	15.8	14.7	16.1	16.4
	3H	15.8	17.2	16.2	17.5	17.9	15.4	16.8	15.8	17.1	17.5
	4H	16.1	17.4	16.5	17.7	18.1	15.7	17.0	16.1	17.4	17.7
	6H	16.2	17.4	16.6	17.8	18.2	15.9	17.1	16.3	17.5	17.8
	8H	16.2	17.4	16.7	17.7	18.1	15.9	17.1	16.4	17.4	17.8
	12H	16.2	17.3	16.6	17.7	18.1	15.9	17.0	16.4	17.4	17.8
4H	2H	15.2	16.4	15.6	16.8	17.2	14.8	16.0	15.2	16.4	16.8
	3H	16.4	17.5	16.8	17.9	18.3	16.1	17.1	16.5	17.5	17.9
	4H	16.8	17.7	17.2	18.1	18.6	16.5	17.4	16.9	17.9	18.3
	6H	16.9	17.8	17.4	18.2	18.7	16.8	17.6	17.2	18.0	18.5
	8H	16.9	17.7	17.4	18.2	18.6	16.8	17.6	17.2	18.0	18.5
	12H	16.9	17.6	17.4	18.1	18.6	16.8	17.5	17.3	18.0	18.4
8H	4H	16.9	17.6	17.3	18.1	18.5	16.6	17.4	17.1	17.8	18.3
	6H	17.1	17.7	17.6	18.2	18.7	16.9	17.6	17.4	18.1	18.5
	8H	17.1	17.7	17.6	18.2	18.7	17.0	17.6	17.5	18.1	18.6
	12H	17.1	17.6	17.6	18.1	18.7	17.0	17.5	17.6	18.0	18.6
12H	4H	16.9	17.5	17.3	18.0	18.5	16.6	17.3	17.1	17.8	18.2
	6H	17.1	17.6	17.6	18.1	18.6	16.9	17.5	17.5	18.0	18.5
	8H	17.1	17.6	17.6	18.1	18.7	17.0	17.5	17.5	18.0	18.6

Maximum UGR = 18.7

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-14-L31-835-CS-SAF12125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1365.499 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.