IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-935-CS-SAF125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19834.0
[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 REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-935-CS-SAF125-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	5505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	58.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5500	5517	5522
55	4815	4687	4776
65	3732	3639	3756
75	2388	2474	2289
85	472	895	728

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-L65-935-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2343.126	2343.126	2343.126	2343.126	2343.126
5	2352.529	2337.543	2325.495	2319.912	2320.500
10	2311.978	2299.343	2289.058	2284.357	2278.186
15	2243.806	2232.052	2228.232	2219.711	2215.891
20	2147.131	2141.841	2141.254	2118.334	2121.860
25	2024.303	2021.659	2016.957	2003.734	2009.023
30	1882.669	1876.793	1864.157	1864.157	1869.153
35	1711.651	1706.656	1701.367	1695.784	1697.547
40	1525.647	1525.647	1527.704	1518.888	1518.888
45	1333.178	1336.704	1337.292	1325.244	1338.467
50	1139.828	1130.131	1133.363	1112.206	1140.709
55	946.771	927.377	921.500	922.969	939.131
60	739.022	731.382	716.690	737.553	743.136
65	540.676	548.316	527.159	543.027	544.202
70	368.776	367.307	363.193	359.667	353.790
75	211.863	203.635	219.503	208.043	203.047
80	84.628	83.746	100.789	103.140	94.912
85	14.105	18.218	26.740	28.797	21.745
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-L65-935-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	848.73	N.A.	15.40
0-30	1775.51	N.A.	32.30
0-40	2839.75	N.A.	51.60
0-60	4697.66	N.A.	85.30
0-80	5466.53	N.A.	99.30
0-90	5504.67	N.A.	100.00
10-90	5283.47	N.A.	96.00
20-40	1991.02	N.A.	36.20
20-50	3017.73	N.A.	54.80
40-70	2395.78	N.A.	43.50
60-80	768.87	N.A.	14.00
70-80	231.00	N.A.	4.20
80-90	38.14	N.A.	0.70
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	5504.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.20
10-20	627.53
20-30	926.78
30-40	1064.24
40-50	1026.71
50-60	831.20
60-70	537.87
70-80	231.00
80-90	38.14
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-L65-935-CS-SAF125-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	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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-L65-935-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

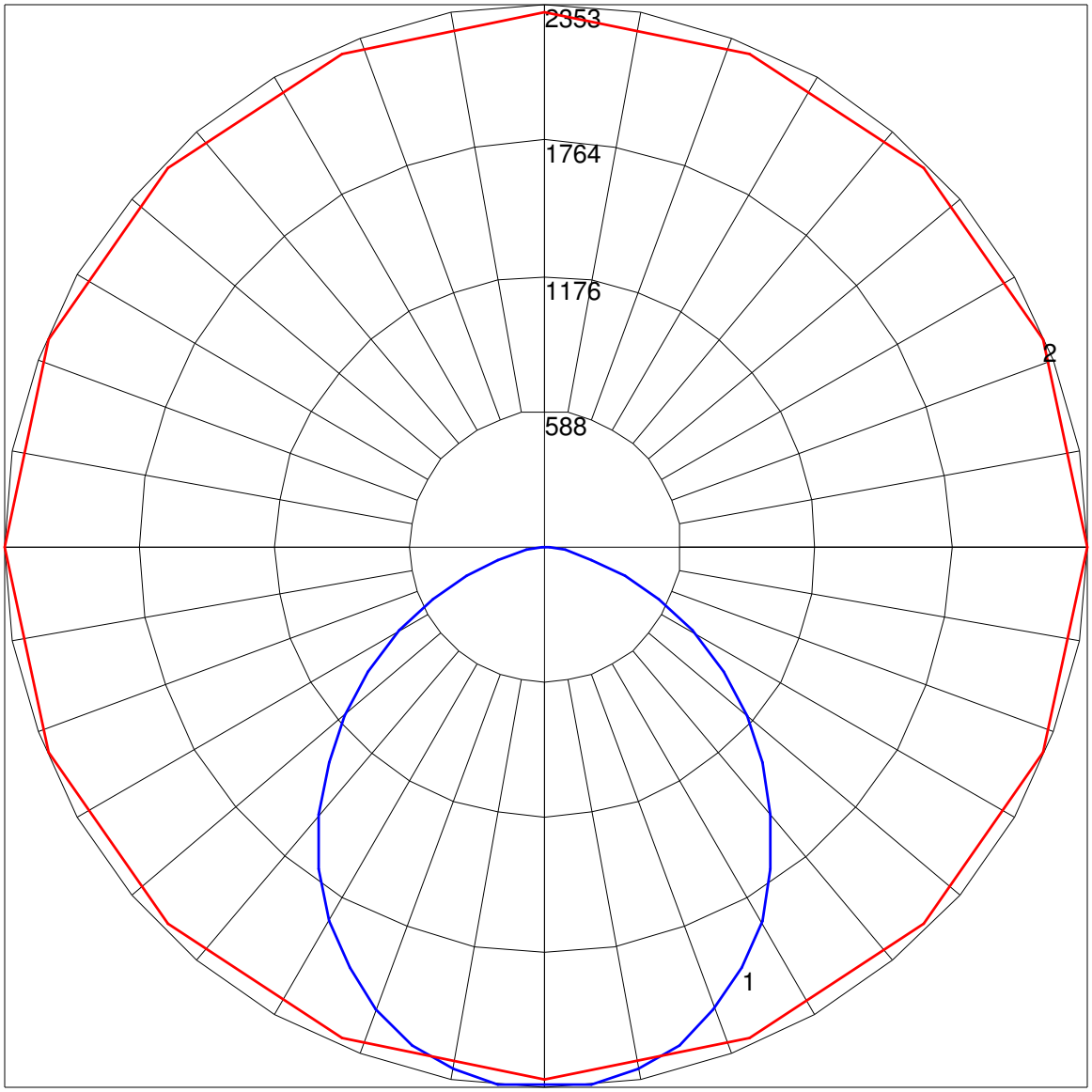
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.2	18.7	17.5	19.0	19.3	17.2	18.7	17.5	19.0	19.4
	3H	18.4	19.8	18.8	20.2	20.5	18.4	19.8	18.8	20.1	20.5
	4H	18.8	20.1	19.2	20.4	20.8	18.7	20.0	19.1	20.4	20.7
	6H	18.9	20.1	19.3	20.5	20.9	18.9	20.1	19.3	20.5	20.8
	8H	18.9	20.1	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
	12H	18.9	20.0	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
4H	2H	17.6	18.9	18.0	19.3	19.6	17.6	18.9	18.0	19.3	19.6
	3H	19.1	20.1	19.5	20.5	20.9	19.0	20.1	19.4	20.5	20.9
	4H	19.5	20.4	19.9	20.9	21.3	19.4	20.4	19.9	20.8	21.3
	6H	19.7	20.5	20.1	20.9	21.4	19.7	20.5	20.1	21.0	21.4
	8H	19.7	20.5	20.1	20.9	21.4	19.7	20.5	20.2	20.9	21.4
	12H	19.7	20.4	20.1	20.8	21.3	19.7	20.4	20.2	20.9	21.4
8H	4H	19.6	20.4	20.1	20.8	21.3	19.6	20.4	20.0	20.8	21.3
	6H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.4	21.0	21.5
	8H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.5	21.0	21.5
	12H	19.9	20.4	20.4	20.9	21.4	20.0	20.5	20.5	21.0	21.5
12H	4H	19.6	20.3	20.1	20.8	21.3	19.6	20.3	20.0	20.7	21.2
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.5
	8H	19.9	20.4	20.4	20.9	21.5	20.0	20.5	20.5	21.0	21.5

Maximum UGR = 21.5

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-22-L65-935-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2352.529 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.