IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-940-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-L65-940-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	5548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	58.5
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	8335	8313	8431
55	6631	6503	6534
65	4910	4646	4640
75	3300	2832	2910
85	1073	638	1044

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-L65-940-CS-SAF12125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2466.660	2466.660	2466.660	2466.660	2466.660
5	2460.264	2459.682	2457.938	2452.705	2452.705
10	2417.816	2424.793	2423.049	2419.560	2416.653
15	2352.108	2361.993	2360.830	2366.063	2361.993
20	2261.396	2273.026	2271.863	2294.541	2280.004
25	2135.214	2151.495	2164.288	2184.640	2162.544
30	1978.213	2007.868	2021.824	2029.965	2012.520
35	1792.719	1830.515	1837.493	1825.864	1819.467
40	1588.618	1605.481	1606.644	1599.084	1610.133
45	1356.024	1355.442	1352.535	1350.209	1371.724
50	1116.452	1099.589	1103.659	1094.355	1112.381
55	875.135	862.924	858.272	862.924	862.343
60	654.752	641.960	641.378	650.100	648.356
65	477.399	469.259	451.814	468.096	451.233
70	320.980	319.817	290.743	316.909	291.324
75	196.542	188.983	168.631	186.075	173.283
80	88.967	87.223	72.104	79.663	84.315
85	21.515	23.259	12.793	16.282	20.933
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-L65-940-CS-SAF12125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	899.38	N.A.	16.20
0-30	1893.52	N.A.	34.10
0-40	3030.68	N.A.	54.60
0-60	4851.62	N.A.	87.50
0-80	5515.53	N.A.	99.40
0-90	5547.68	N.A.	100.00
10-90	5314.33	N.A.	95.80
20-40	2131.3	N.A.	38.40
20-50	3175.81	N.A.	57.20
40-70	2286.11	N.A.	41.20
60-80	663.91	N.A.	12.00
70-80	198.74	N.A.	3.60
80-90	32.15	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	5547.68	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.35
10-20	666.02
20-30	994.15
30-40	1137.16
40-50	1044.51
50-60	776.43
60-70	465.17
70-80	198.74
80-90	32.15
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-L65-940-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-L65-940-CS-SAF12125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

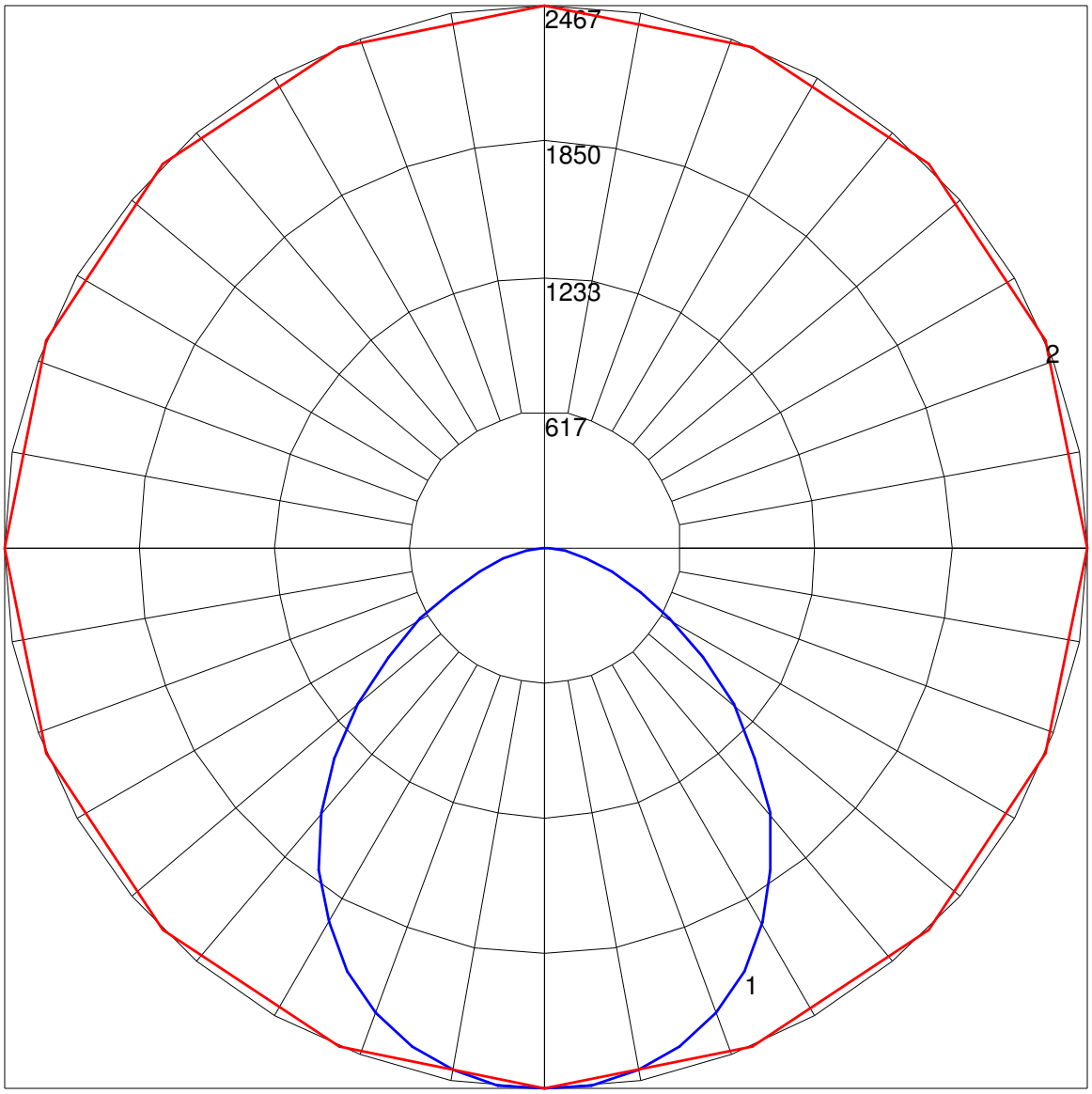
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.5	18.3	19.8	20.1	18.0	19.5	18.4	19.8	20.1
	3H	19.1	20.5	19.5	20.8	21.2	19.1	20.4	19.4	20.7	21.1
	4H	19.5	20.8	19.9	21.1	21.5	19.4	20.6	19.8	21.0	21.4
	6H	19.7	20.8	20.1	21.2	21.6	19.5	20.7	19.9	21.0	21.4
	8H	19.7	20.8	20.1	21.2	21.6	19.5	20.6	19.9	21.0	21.4
	12H	19.7	20.7	20.1	21.1	21.6	19.5	20.6	20.0	21.0	21.4
4H	2H	18.3	19.6	18.7	20.0	20.3	18.4	19.6	18.8	20.0	20.3
	3H	19.7	20.7	20.1	21.1	21.5	19.6	20.7	20.1	21.1	21.5
	4H	20.1	21.1	20.6	21.5	21.9	20.0	21.0	20.4	21.4	21.8
	6H	20.4	21.2	20.8	21.6	22.1	20.2	21.0	20.7	21.5	22.0
	8H	20.4	21.2	20.9	21.6	22.1	20.3	21.0	20.7	21.5	21.9
	12H	20.4	21.1	20.9	21.6	22.0	20.3	20.9	20.8	21.4	21.9
8H	4H	20.2	21.0	20.7	21.4	21.9	20.1	20.9	20.6	21.3	21.8
	6H	20.5	21.1	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0
	8H	20.6	21.1	21.1	21.6	22.1	20.4	21.0	20.9	21.5	22.0
	12H	20.6	21.1	21.1	21.6	22.2	20.4	20.9	20.9	21.4	22.0
12H	4H	20.2	20.9	20.7	21.4	21.8	20.1	20.8	20.6	21.3	21.7
	6H	20.5	21.1	21.0	21.5	22.1	20.4	20.9	20.9	21.4	21.9
	8H	20.6	21.1	21.1	21.6	22.1	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 22.2

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-L65-940-CS-SAF12125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2466.66 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.