IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-950-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-L65-950-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	5898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	5893	5911	5916
55	5159	5021	5118
65	3999	3899	4025
75	2558	2651	2452
85	506	959	780

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-L65-950-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2510.491	2510.491	2510.491	2510.491	2510.491
5	2520.566	2504.509	2491.601	2485.619	2486.249
10	2477.119	2463.581	2452.561	2447.524	2440.913
15	2404.077	2391.484	2387.391	2378.261	2374.168
20	2300.496	2294.829	2294.200	2269.643	2273.421
25	2168.896	2166.062	2161.025	2146.857	2152.524
30	2017.145	2010.849	1997.311	1997.311	2002.663
35	1833.912	1828.559	1822.892	1816.910	1818.799
40	1634.621	1634.621	1636.825	1627.380	1627.380
45	1428.405	1432.183	1432.812	1419.904	1434.072
50	1221.243	1210.854	1214.317	1191.649	1222.188
55	1014.397	993.618	987.321	988.895	1006.211
60	791.809	783.623	767.882	790.235	796.217
65	579.296	587.481	564.813	581.814	583.074
70	395.117	393.543	389.136	385.358	379.061
75	226.996	218.180	235.181	222.903	217.551
80	90.672	89.728	107.988	110.507	101.692
85	15.112	19.520	28.650	30.854	23.298
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-L65-950-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	909.36	N.A.	15.40
0-30	1902.33	N.A.	32.30
0-40	3042.59	N.A.	51.60
0-60	5033.21	N.A.	85.30
0-80	5857.00	N.A.	99.30
0-90	5897.86	N.A.	100.00
10-90	5660.86	N.A.	96.00
20-40	2133.23	N.A.	36.20
20-50	3233.28	N.A.	54.80
40-70	2566.91	N.A.	43.50
60-80	823.79	N.A.	14.00
70-80	247.49	N.A.	4.20
80-90	40.87	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	5897.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	237.00
10-20	672.36
20-30	992.97
30-40	1140.26
40-50	1100.04
50-60	890.57
60-70	576.29
70-80	247.49
80-90	40.87
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-L65-950-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	64	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	46	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-L65-950-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

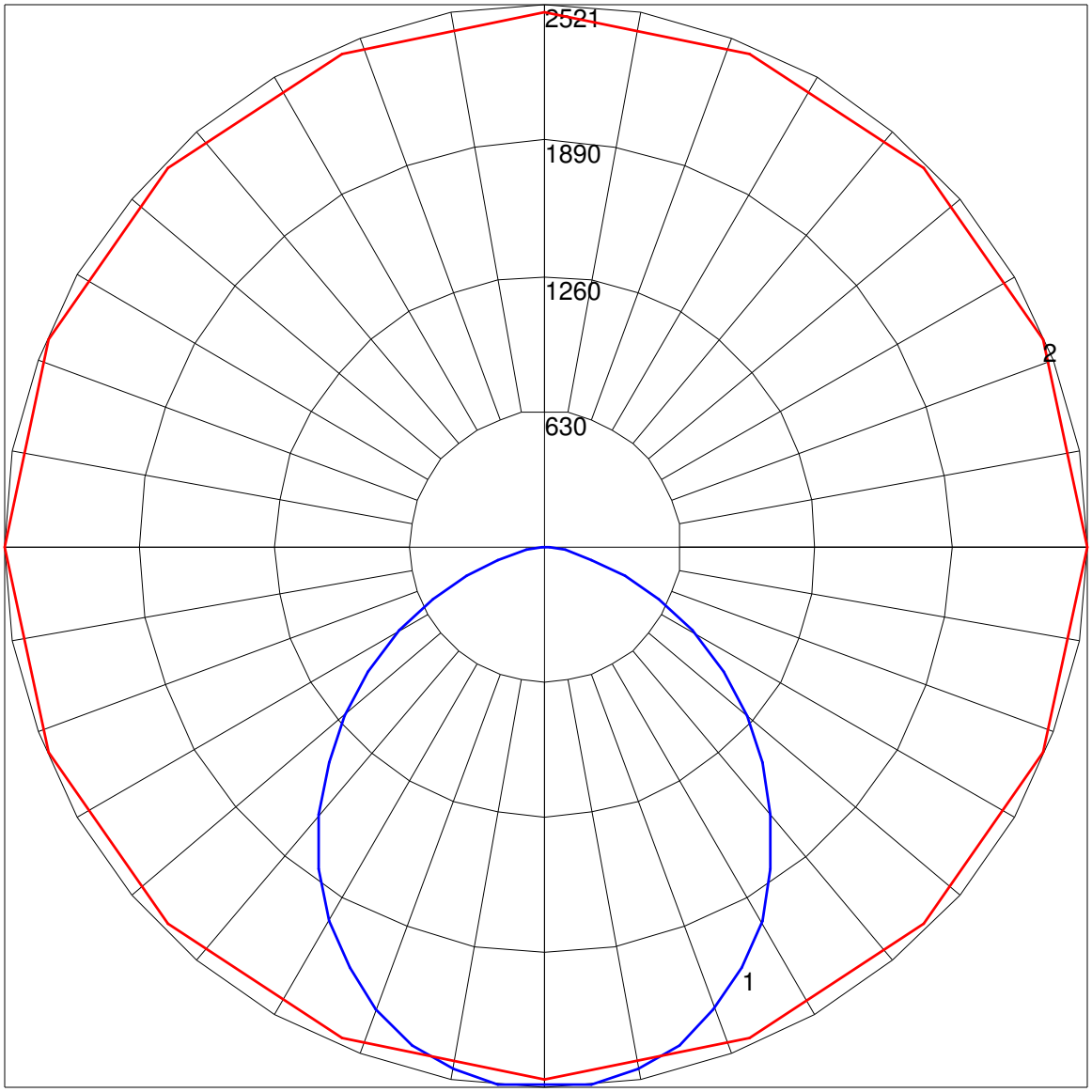
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.5	19.0	17.8	19.3	19.6	17.5	19.0	17.8	19.3	19.7
	3H	18.7	20.1	19.1	20.5	20.8	18.7	20.1	19.1	20.4	20.8
	4H	19.1	20.4	19.5	20.7	21.1	19.0	20.3	19.4	20.7	21.0
	6H	19.2	20.4	19.6	20.8	21.2	19.2	20.4	19.6	20.7	21.1
	8H	19.2	20.4	19.6	20.7	21.1	19.2	20.3	19.6	20.7	21.1
	12H	19.2	20.3	19.6	20.7	21.1	19.2	20.3	19.6	20.7	21.1
4H	2H	17.9	19.2	18.3	19.6	19.9	17.9	19.2	18.3	19.6	19.9
	3H	19.4	20.4	19.8	20.8	21.2	19.3	20.4	19.7	20.8	21.2
	4H	19.8	20.7	20.2	21.2	21.6	19.7	20.7	20.2	21.1	21.6
	6H	20.0	20.8	20.4	21.2	21.7	20.0	20.8	20.4	21.2	21.7
	8H	20.0	20.8	20.4	21.2	21.7	20.0	20.8	20.5	21.2	21.7
	12H	20.0	20.7	20.4	21.1	21.6	20.0	20.7	20.5	21.2	21.7
8H	4H	19.9	20.7	20.4	21.1	21.6	19.9	20.7	20.3	21.1	21.6
	6H	20.2	20.8	20.6	21.3	21.8	20.2	20.8	20.7	21.3	21.8
	8H	20.2	20.8	20.7	21.3	21.8	20.2	20.8	20.8	21.3	21.8
	12H	20.2	20.7	20.7	21.2	21.7	20.3	20.8	20.8	21.3	21.8
12H	4H	19.9	20.6	20.4	21.1	21.5	19.9	20.6	20.3	21.0	21.5
	6H	20.2	20.7	20.7	21.2	21.7	20.2	20.8	20.7	21.2	21.8
	8H	20.2	20.7	20.7	21.2	21.8	20.3	20.8	20.8	21.3	21.8

Maximum UGR = 21.8

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-L65-950-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2520.566 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.