IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-827-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-L65-827-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	6357
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	6351	6371	6376
55	5560	5412	5516
65	4310	4202	4338
75	2757	2857	2643
85	545	1034	840

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-L65-827-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2705.752	2705.752	2705.752	2705.752	2705.752
5	2716.610	2699.305	2685.393	2678.946	2679.624
10	2669.784	2655.193	2643.317	2637.888	2630.762
15	2591.061	2577.488	2573.077	2563.237	2558.826
20	2479.424	2473.317	2472.638	2446.171	2450.243
25	2337.588	2334.534	2329.105	2313.835	2319.943
30	2174.035	2167.248	2152.657	2152.657	2158.426
35	1976.549	1970.781	1964.673	1958.226	1960.262
40	1761.759	1761.759	1764.134	1753.954	1753.954
45	1539.503	1543.575	1544.253	1530.341	1545.611
50	1316.229	1305.032	1308.764	1284.333	1317.247
55	1093.295	1070.900	1064.113	1065.810	1084.472
60	853.394	844.572	827.606	851.698	858.145
65	624.352	633.174	608.743	627.067	628.424
70	425.849	424.152	419.402	415.330	408.543
75	244.651	235.150	253.473	240.240	234.471
80	97.725	96.707	116.387	119.102	109.601
85	16.287	21.038	30.878	33.254	25.110
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-L65-827-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	980.09	N.A.	15.40
0-30	2050.29	N.A.	32.30
0-40	3279.24	N.A.	51.60
0-60	5424.68	N.A.	85.30
0-80	6312.54	N.A.	99.30
0-90	6356.59	N.A.	100.00
10-90	6101.15	N.A.	96.00
20-40	2299.15	N.A.	36.20
20-50	3484.75	N.A.	54.80
40-70	2766.56	N.A.	43.50
60-80	887.86	N.A.	14.00
70-80	266.74	N.A.	4.20
80-90	44.05	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	6356.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.44
10-20	724.65
20-30	1070.21
30-40	1228.95
40-50	1185.6
50-60	959.84
60-70	621.12
70-80	266.74
80-90	44.05
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-L65-827-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-L65-827-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

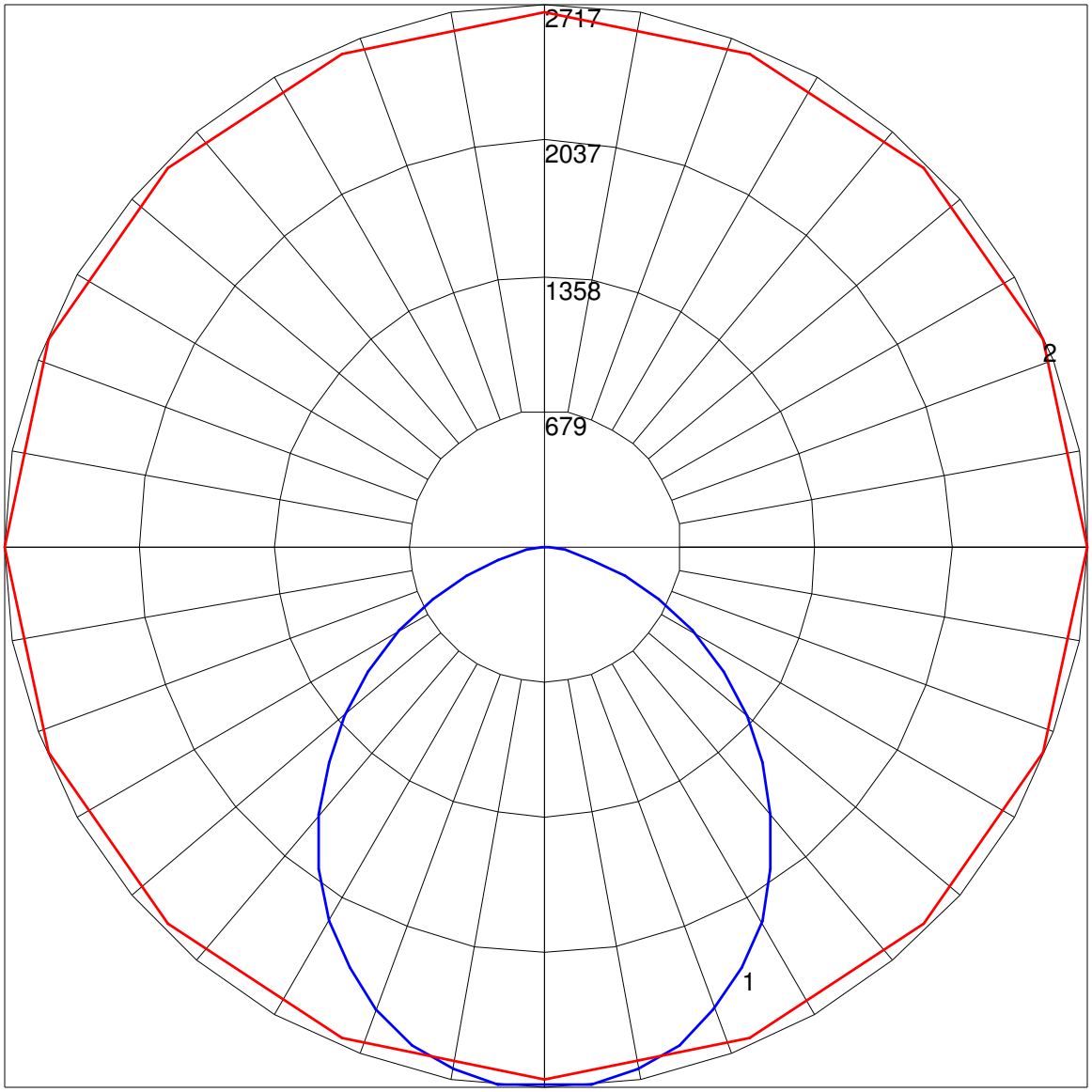
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.7	19.2	18.0	19.5	19.8	17.7	19.2	18.0	19.5	19.9
	3H	18.9	20.3	19.3	20.7	21.0	18.9	20.3	19.3	20.6	21.0
	4H	19.3	20.6	19.7	20.9	21.3	19.2	20.5	19.6	20.9	21.2
	6H	19.4	20.6	19.8	21.0	21.4	19.4	20.6	19.8	21.0	21.3
	8H	19.4	20.6	19.8	20.9	21.3	19.4	20.5	19.8	20.9	21.3
	12H	19.4	20.5	19.8	20.9	21.3	19.4	20.5	19.8	20.9	21.3
4H	2H	18.1	19.4	18.5	19.8	20.1	18.1	19.4	18.5	19.8	20.1
	3H	19.6	20.6	20.0	21.0	21.4	19.5	20.6	19.9	21.0	21.4
	4H	20.0	20.9	20.4	21.4	21.8	19.9	20.9	20.4	21.3	21.8
	6H	20.2	21.0	20.6	21.4	21.9	20.2	21.0	20.6	21.5	21.9
	8H	20.2	21.0	20.6	21.4	21.9	20.2	21.0	20.7	21.4	21.9
	12H	20.2	20.9	20.6	21.3	21.8	20.2	20.9	20.7	21.4	21.9
8H	4H	20.1	20.9	20.6	21.3	21.8	20.1	20.9	20.5	21.3	21.8
	6H	20.4	21.0	20.8	21.5	22.0	20.4	21.0	20.9	21.5	22.0
	8H	20.4	21.0	20.9	21.5	22.0	20.4	21.0	21.0	21.5	22.0
	12H	20.4	20.9	20.9	21.4	21.9	20.5	21.0	21.0	21.5	22.0
12H	4H	20.1	20.8	20.6	21.3	21.8	20.1	20.8	20.5	21.2	21.7
	6H	20.4	20.9	20.9	21.4	21.9	20.4	21.0	20.9	21.4	22.0
	8H	20.4	20.9	20.9	21.4	22.0	20.5	21.0	21.0	21.5	22.0

Maximum UGR = 22.0

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-L65-827-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2716.61 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.