IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-830-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] 6-42 LED 22" ARRAYS 2'x4' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L60-830-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	5984
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	48.9
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)	3.57 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	3921	3934	3937
55	3433	3342	3405
65	2661	2594	2678
75	1703	1764	1632
85	337	638	519

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-24-L60-830-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2547.031	2547.031	2547.031	2547.031	2547.031
5	2557.253	2540.962	2527.866	2521.797	2522.436
10	2513.173	2499.438	2488.258	2483.148	2476.440
15	2439.068	2426.292	2422.139	2412.876	2408.724
20	2333.980	2328.231	2327.592	2302.677	2306.510
25	2200.464	2197.589	2192.478	2178.105	2183.854
30	2046.505	2040.116	2026.381	2026.381	2031.812
35	1860.604	1855.174	1849.424	1843.356	1845.272
40	1658.413	1658.413	1660.649	1651.066	1651.066
45	1449.195	1453.028	1453.667	1440.571	1454.944
50	1239.019	1228.478	1231.991	1208.993	1239.977
55	1029.162	1008.080	1001.692	1003.289	1020.857
60	803.334	795.029	779.058	801.737	807.806
65	587.727	596.032	573.034	590.283	591.560
70	400.868	399.271	394.799	390.966	384.578
75	230.300	221.356	238.604	226.147	220.717
80	91.992	91.034	109.560	112.115	103.172
85	15.332	19.804	29.067	31.303	23.637
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-24-L60-830-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	922.59	N.A.	15.40
0-30	1930.02	N.A.	32.30
0-40	3086.88	N.A.	51.60
0-60	5106.47	N.A.	85.30
0-80	5942.24	N.A.	99.30
0-90	5983.71	N.A.	100.00
10-90	5743.26	N.A.	96.00
20-40	2164.28	N.A.	36.20
20-50	3280.34	N.A.	54.80
40-70	2604.27	N.A.	43.50
60-80	835.78	N.A.	14.00
70-80	251.10	N.A.	4.20
80-90	41.46	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	5983.71	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.45
10-20	682.14
20-30	1007.43
30-40	1156.86
40-50	1116.05
50-60	903.54
60-70	584.68
70-80	251.10
80-90	41.46
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-24-L60-830-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	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-24-L60-830-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

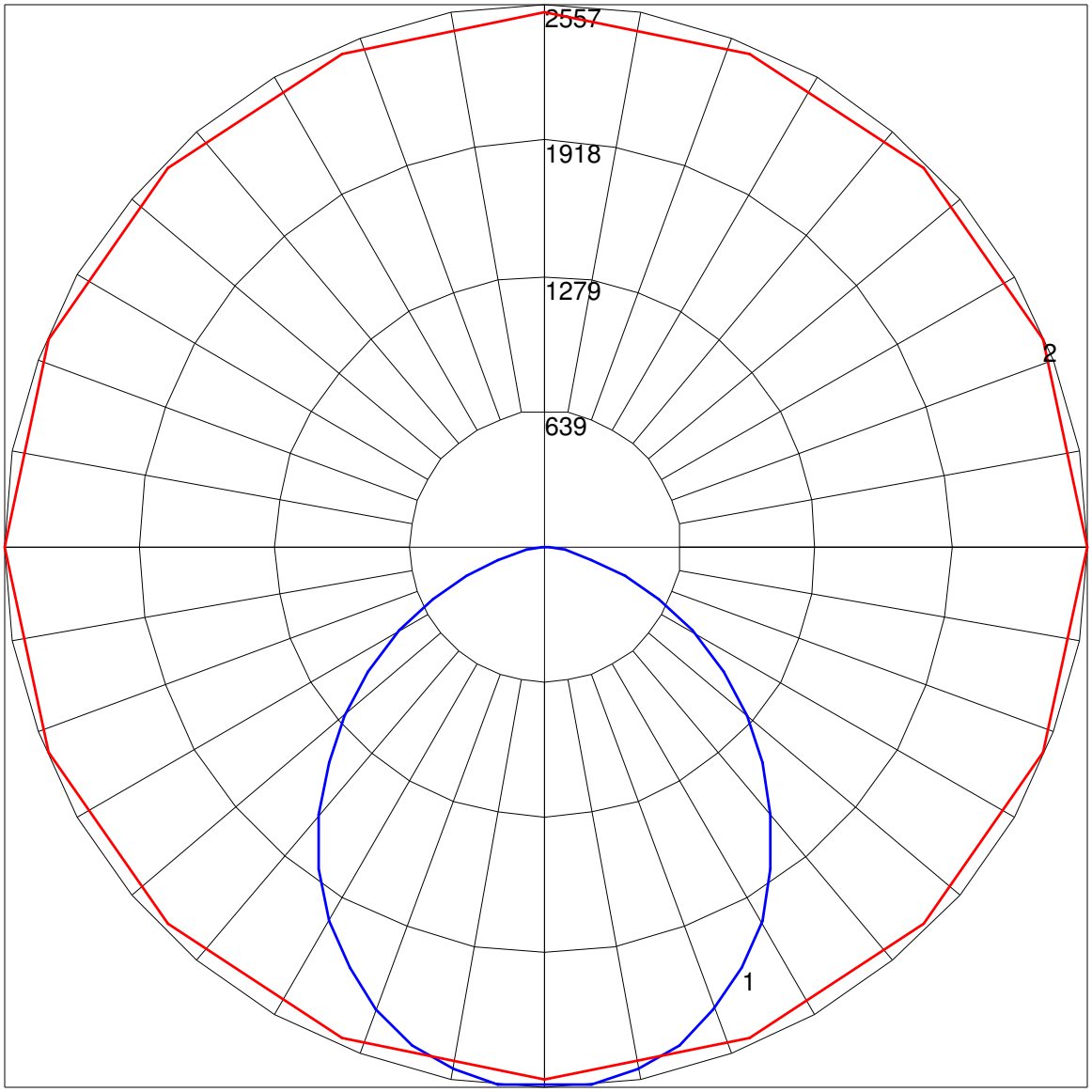
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.0	17.6	16.4	17.9	18.2	16.0	17.6	16.4	17.9	18.2
	3H	17.3	18.7	17.7	19.0	19.4	17.2	18.6	17.6	19.0	19.3
	4H	17.6	18.9	18.0	19.3	19.6	17.6	18.9	18.0	19.2	19.6
	6H	17.7	18.9	18.2	19.3	19.7	17.7	18.9	18.1	19.3	19.7
	8H	17.7	18.9	18.2	19.3	19.7	17.7	18.9	18.2	19.3	19.7
	12H	17.7	18.8	18.2	19.2	19.6	17.7	18.8	18.2	19.2	19.6
4H	2H	16.5	17.7	16.8	18.1	18.5	16.5	17.8	16.9	18.1	18.5
	3H	17.9	19.0	18.3	19.4	19.8	17.9	18.9	18.3	19.3	19.7
	4H	18.3	19.3	18.7	19.7	20.1	18.3	19.2	18.7	19.6	20.1
	6H	18.5	19.3	18.9	19.8	20.2	18.5	19.3	19.0	19.8	20.2
	8H	18.5	19.3	19.0	19.7	20.2	18.5	19.3	19.0	19.8	20.2
	12H	18.5	19.2	19.0	19.7	20.2	18.5	19.2	19.0	19.7	20.2
8H	4H	18.4	19.2	18.9	19.7	20.1	18.4	19.2	18.9	19.6	20.1
	6H	18.7	19.3	19.2	19.8	20.3	18.7	19.4	19.2	19.8	20.3
	8H	18.7	19.3	19.2	19.8	20.3	18.8	19.4	19.3	19.9	20.4
	12H	18.7	19.2	19.2	19.7	20.3	18.8	19.3	19.3	19.8	20.4
12H	4H	18.4	19.1	18.9	19.6	20.1	18.4	19.1	18.9	19.6	20.0
	6H	18.7	19.3	19.2	19.7	20.3	18.7	19.3	19.2	19.7	20.3
	8H	18.7	19.2	19.2	19.7	20.3	18.8	19.3	19.3	19.8	20.4

Maximum UGR = 20.4

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-24-L60-830-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2557.253 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.