IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-927-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-L60-927-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	4835
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	3169	3179	3181
55	2774	2700	2752
65	2150	2096	2164
75	1376	1425	1319
85	272	516	419

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-L60-927-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2058.208	2058.208	2058.208	2058.208	2058.208
5	2066.467	2053.303	2042.721	2037.816	2038.333
10	2030.847	2019.748	2010.714	2006.585	2001.164
15	1970.965	1960.640	1957.285	1949.799	1946.444
20	1886.045	1881.399	1880.883	1860.750	1863.847
25	1778.153	1775.830	1771.700	1760.085	1764.731
30	1653.742	1648.579	1637.480	1637.480	1641.868
35	1503.519	1499.131	1494.485	1489.581	1491.129
40	1340.132	1340.132	1341.939	1334.195	1334.195
45	1171.067	1174.164	1174.681	1164.098	1175.713
50	1001.227	992.710	995.549	976.965	1002.002
55	831.646	814.610	809.448	810.739	824.935
60	649.159	642.448	629.542	647.868	652.772
65	474.931	481.642	463.058	476.996	478.029
70	323.934	322.644	319.030	315.933	310.770
75	186.101	178.874	192.812	182.745	178.357
80	74.337	73.563	88.533	90.598	83.371
85	12.390	16.003	23.488	25.295	19.100
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-L60-927-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	745.53	N.A.	15.40
0-30	1559.61	N.A.	32.30
0-40	2494.45	N.A.	51.60
0-60	4126.44	N.A.	85.30
0-80	4801.81	N.A.	99.30
0-90	4835.32	N.A.	100.00
10-90	4641.02	N.A.	96.00
20-40	1748.92	N.A.	36.20
20-50	2650.78	N.A.	54.80
40-70	2104.46	N.A.	43.50
60-80	675.38	N.A.	14.00
70-80	202.91	N.A.	4.20
80-90	33.51	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	4835.32	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.30
10-20	551.23
20-30	814.08
30-40	934.83
40-50	901.86
50-60	730.13
60-70	472.47
70-80	202.91
80-90	33.51
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-L60-927-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	97	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-24-L60-927-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

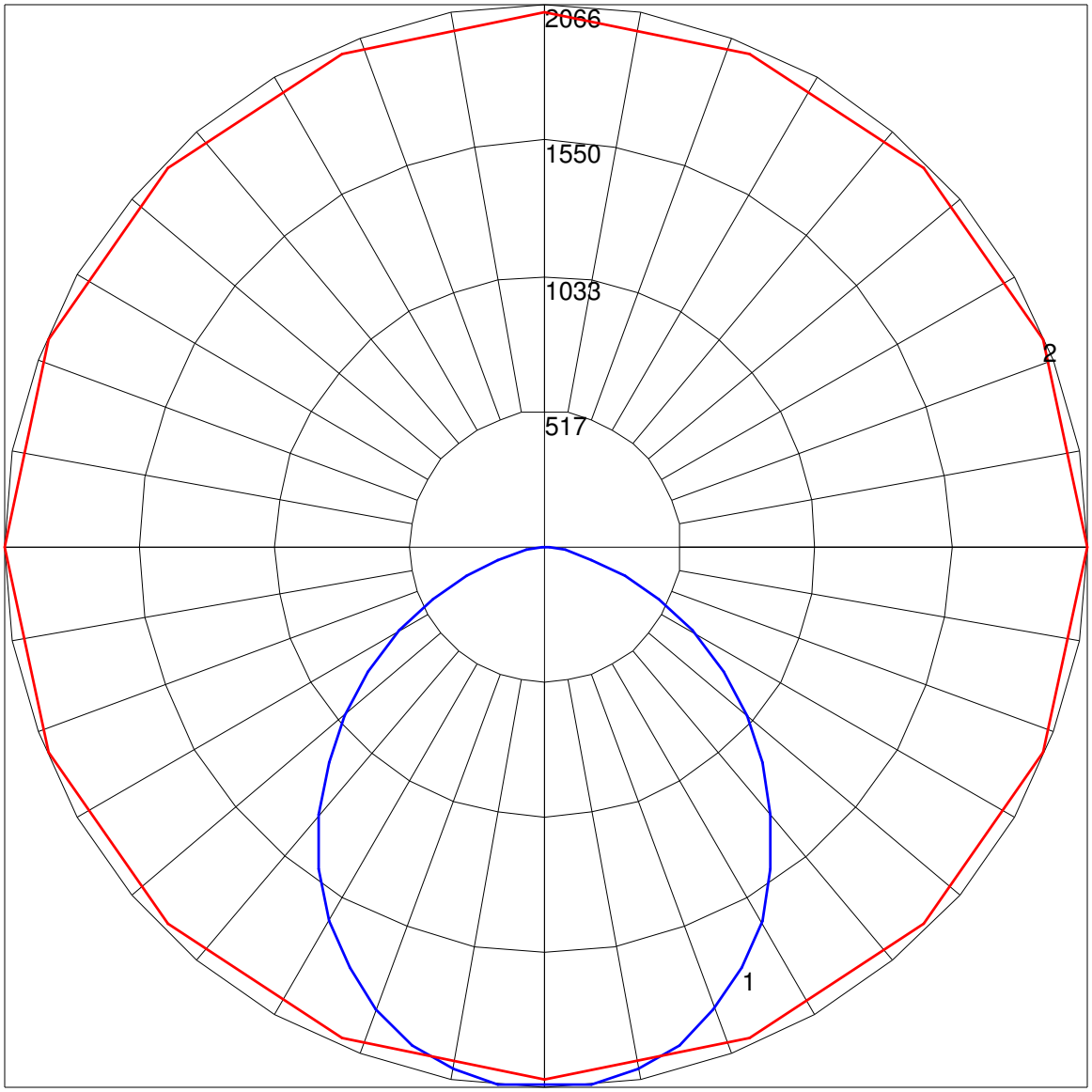
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.3	16.9	15.7	17.2	17.5	15.3	16.9	15.7	17.2	17.5
	3H	16.6	18.0	17.0	18.3	18.7	16.5	17.9	16.9	18.3	18.6
	4H	16.9	18.2	17.3	18.6	18.9	16.9	18.2	17.3	18.5	18.9
	6H	17.0	18.2	17.5	18.6	19.0	17.0	18.2	17.4	18.6	19.0
	8H	17.0	18.2	17.5	18.6	19.0	17.0	18.2	17.5	18.6	19.0
	12H	17.0	18.1	17.5	18.5	18.9	17.0	18.1	17.5	18.5	18.9
4H	2H	15.7	17.0	16.1	17.4	17.8	15.8	17.1	16.2	17.4	17.8
	3H	17.2	18.3	17.6	18.7	19.1	17.2	18.2	17.6	18.6	19.0
	4H	17.6	18.6	18.0	19.0	19.4	17.6	18.5	18.0	18.9	19.4
	6H	17.8	18.6	18.2	19.1	19.5	17.8	18.6	18.3	19.1	19.5
	8H	17.8	18.6	18.3	19.0	19.5	17.8	18.6	18.3	19.1	19.5
	12H	17.8	18.5	18.3	19.0	19.5	17.8	18.5	18.3	19.0	19.5
8H	4H	17.7	18.5	18.2	19.0	19.4	17.7	18.5	18.2	18.9	19.4
	6H	18.0	18.6	18.5	19.1	19.6	18.0	18.7	18.5	19.1	19.6
	8H	18.0	18.6	18.5	19.1	19.6	18.1	18.7	18.6	19.2	19.7
	12H	18.0	18.5	18.5	19.0	19.6	18.1	18.6	18.6	19.1	19.7
12H	4H	17.7	18.4	18.2	18.9	19.4	17.7	18.4	18.2	18.9	19.3
	6H	18.0	18.6	18.5	19.0	19.6	18.0	18.6	18.5	19.0	19.6
	8H	18.0	18.5	18.5	19.0	19.6	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 19.7

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-L60-927-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2066.467 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.