IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-850-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-L60-850-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	6407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	4199	4212	4215
55	3676	3578	3646
65	2849	2778	2868
75	1823	1889	1747
85	360	683	556

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-L60-850-CS-SAF125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2727.125	2727.125	2727.125	2727.125	2727.125
5	2738.069	2720.627	2706.605	2700.107	2700.791
10	2690.872	2676.166	2664.196	2658.724	2651.542
15	2611.528	2597.848	2593.402	2583.484	2579.038
20	2499.009	2492.853	2492.169	2465.493	2469.597
25	2356.052	2352.974	2347.502	2332.112	2338.268
30	2191.207	2184.367	2169.661	2169.661	2175.475
35	1992.162	1986.348	1980.192	1973.694	1975.746
40	1775.675	1775.675	1778.069	1767.809	1767.809
45	1551.663	1555.768	1556.452	1542.429	1557.820
50	1326.626	1315.340	1319.102	1294.478	1327.652
55	1101.931	1079.359	1072.519	1074.229	1093.039
60	860.135	851.243	834.143	858.425	864.923
65	629.284	638.176	613.552	632.020	633.388
70	429.213	427.503	422.715	418.611	411.771
75	246.584	237.007	255.476	242.137	236.323
80	98.497	97.471	117.307	120.043	110.467
85	16.416	21.204	31.122	33.516	25.308
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-L60-850-CS-SAF125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	987.83	N.A.	15.40
0-30	2066.49	N.A.	32.30
0-40	3305.14	N.A.	51.60
0-60	5467.53	N.A.	85.30
0-80	6362.4	N.A.	99.30
0-90	6406.8	N.A.	100.00
10-90	6149.35	N.A.	96.00
20-40	2317.31	N.A.	36.20
20-50	3512.28	N.A.	54.80
40-70	2788.41	N.A.	43.50
60-80	894.87	N.A.	14.00
70-80	268.85	N.A.	4.20
80-90	44.39	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	6406.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.45
10-20	730.38
20-30	1078.66
30-40	1238.65
40-50	1194.97
50-60	967.42
60-70	626.02
70-80	268.85
80-90	44.39
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-L60-850-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-24-L60-850-CS-SAF125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

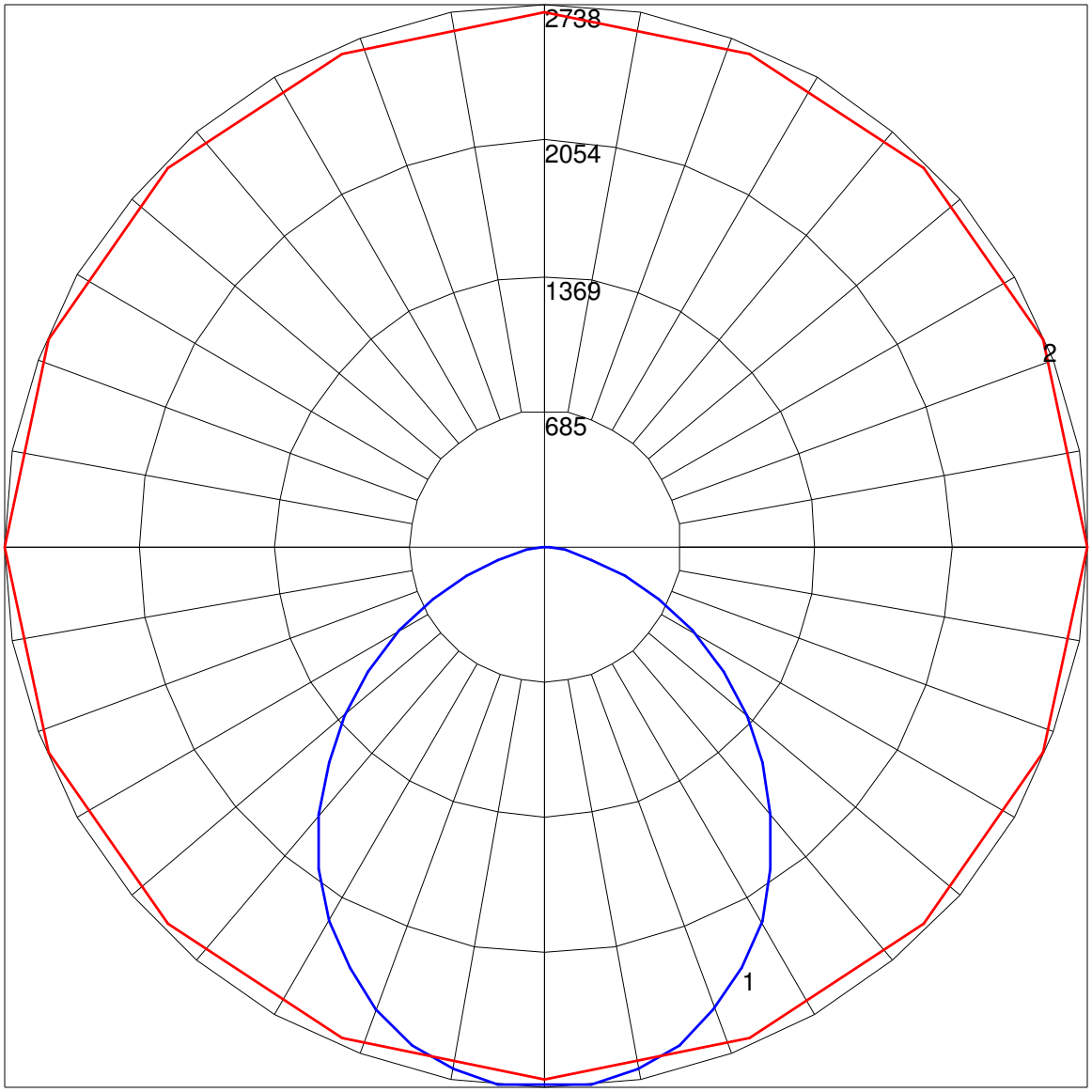
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.3	17.9	16.7	18.2	18.5	16.3	17.9	16.7	18.2	18.5
	3H	17.6	19.0	18.0	19.3	19.7	17.5	18.9	17.9	19.3	19.6
	4H	17.9	19.2	18.3	19.6	19.9	17.9	19.2	18.3	19.5	19.9
	6H	18.0	19.2	18.5	19.6	20.0	18.0	19.2	18.4	19.6	20.0
	8H	18.0	19.2	18.5	19.6	20.0	18.0	19.2	18.5	19.6	20.0
	12H	18.0	19.1	18.5	19.5	19.9	18.0	19.1	18.5	19.5	19.9
4H	2H	16.7	18.0	17.1	18.4	18.8	16.8	18.1	17.2	18.4	18.8
	3H	18.2	19.3	18.6	19.7	20.1	18.2	19.2	18.6	19.6	20.0
	4H	18.6	19.6	19.0	20.0	20.4	18.6	19.5	19.0	19.9	20.4
	6H	18.8	19.6	19.2	20.1	20.5	18.8	19.6	19.3	20.1	20.5
	8H	18.8	19.6	19.3	20.0	20.5	18.8	19.6	19.3	20.1	20.5
	12H	18.8	19.5	19.3	20.0	20.5	18.8	19.5	19.3	20.0	20.5
8H	4H	18.7	19.5	19.2	20.0	20.4	18.7	19.5	19.2	19.9	20.4
	6H	19.0	19.6	19.5	20.1	20.6	19.0	19.7	19.5	20.1	20.6
	8H	19.0	19.6	19.5	20.1	20.6	19.1	19.7	19.6	20.2	20.7
	12H	19.0	19.5	19.5	20.0	20.6	19.1	19.6	19.6	20.1	20.7
12H	4H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.2	19.9	20.3
	6H	19.0	19.6	19.5	20.0	20.6	19.0	19.6	19.5	20.0	20.6
	8H	19.0	19.5	19.5	20.0	20.6	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 20.7

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-L60-850-CS-SAF125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 2738.069 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.