IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-830-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-L120-830-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	11928
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	101.8
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	7817	7841	7848
55	6844	6661	6788
65	5304	5172	5339
75	3394	3516	3253
85	671	1272	1034

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5077.139	5077.139	5077.139	5077.139	5077.139
5	5097.514	5065.042	5038.937	5026.839	5028.112
10	5009.648	4982.269	4959.984	4949.797	4936.426
15	4861.931	4836.462	4828.185	4809.720	4801.443
20	4652.453	4640.992	4639.718	4590.055	4597.695
25	4386.307	4380.577	4370.389	4341.737	4353.198
30	4079.412	4066.678	4039.299	4039.299	4050.123
35	3708.846	3698.022	3686.561	3674.463	3678.284
40	3305.807	3305.807	3310.264	3291.163	3291.163
45	2888.761	2896.402	2897.675	2871.570	2900.222
50	2469.805	2448.793	2455.797	2409.954	2471.715
55	2051.485	2009.462	1996.728	1999.912	2034.931
60	1601.330	1584.775	1552.940	1598.146	1610.244
65	1171.550	1188.104	1142.261	1176.643	1179.190
70	799.073	795.890	786.976	779.335	766.601
75	459.069	441.241	475.624	450.792	439.968
80	183.373	181.463	218.392	223.486	205.658
85	30.562	39.476	57.941	62.398	47.117
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1839.06	N.A.	15.40
0-30	3847.22	N.A.	32.30
0-40	6153.24	N.A.	51.60
0-60	10179.00	N.A.	85.30
0-80	11845.01	N.A.	99.30
0-90	11927.66	N.A.	100.00
10-90	11448.35	N.A.	96.00
20-40	4314.19	N.A.	36.20
20-50	6538.88	N.A.	54.80
40-70	5191.24	N.A.	43.50
60-80	1666.00	N.A.	14.00
70-80	500.53	N.A.	4.20
80-90	82.65	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	11927.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	479.30
10-20	1359.75
20-30	2008.16
30-40	2306.03
40-50	2224.69
50-60	1801.07
60-70	1165.48
70-80	500.53
80-90	82.65
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

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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

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UGR TABLE - CORRECTED

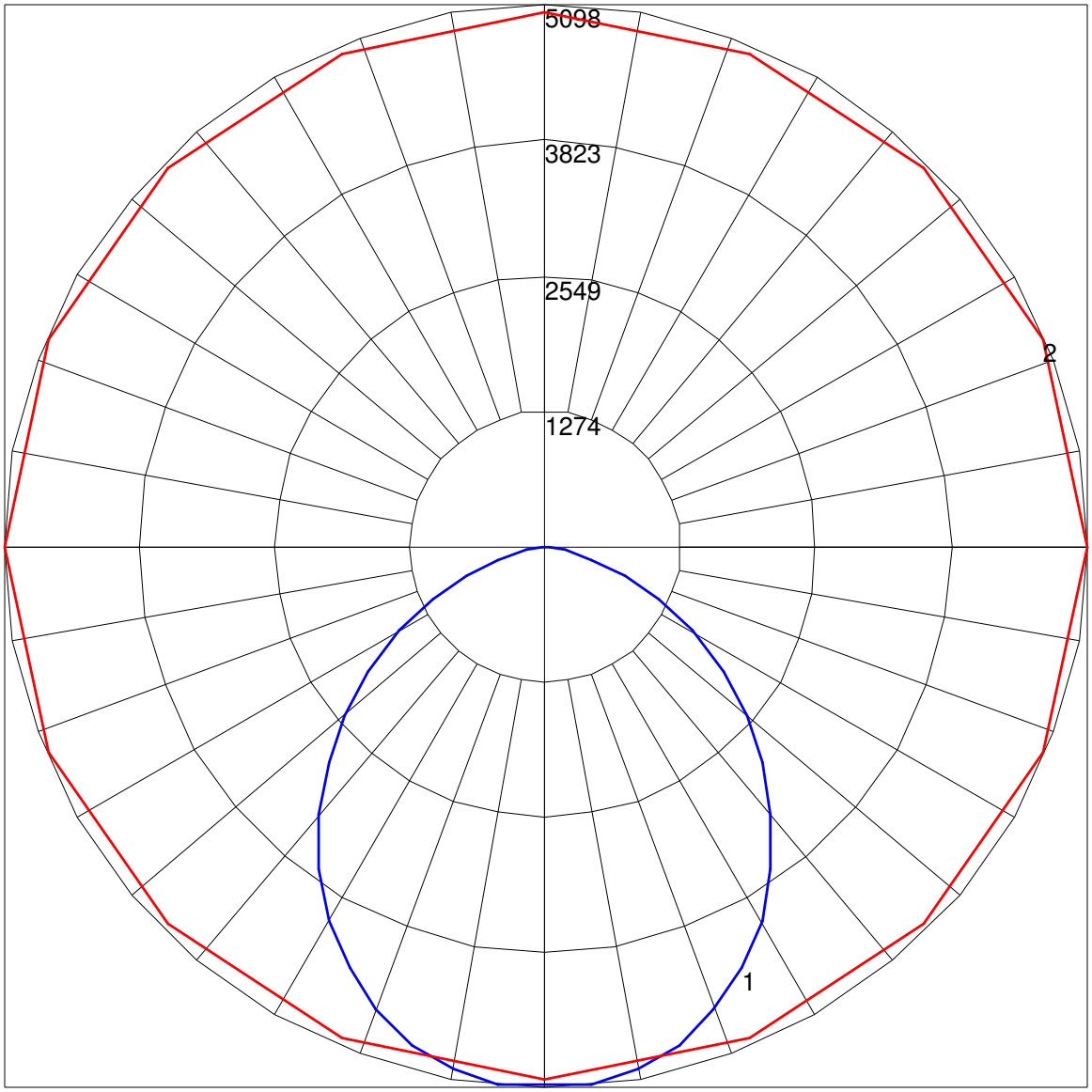
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.4	20.0	18.8	20.3	20.6	18.4	20.0	18.8	20.3	20.6
	3H	19.7	21.1	20.1	21.4	21.8	19.6	21.0	20.0	21.4	21.7
	4H	20.0	21.3	20.4	21.7	22.0	20.0	21.3	20.4	21.6	22.0
	6H	20.1	21.3	20.6	21.7	22.1	20.1	21.3	20.5	21.7	22.1
	8H	20.1	21.3	20.6	21.7	22.1	20.1	21.3	20.6	21.7	22.1
	12H	20.1	21.2	20.6	21.6	22.0	20.1	21.2	20.6	21.6	22.0
4H	2H	18.8	20.1	19.2	20.5	20.9	18.9	20.2	19.3	20.5	20.9
	3H	20.3	21.4	20.7	21.8	22.2	20.3	21.3	20.7	21.7	22.1
	4H	20.7	21.7	21.1	22.1	22.5	20.7	21.6	21.1	22.0	22.5
	6H	20.9	21.7	21.3	22.2	22.6	20.9	21.7	21.4	22.2	22.6
	8H	20.9	21.7	21.4	22.1	22.6	20.9	21.7	21.4	22.2	22.6
	12H	20.9	21.6	21.4	22.1	22.6	20.9	21.6	21.4	22.1	22.6
8H	4H	20.8	21.6	21.3	22.1	22.5	20.8	21.6	21.3	22.0	22.5
	6H	21.1	21.7	21.6	22.2	22.7	21.1	21.8	21.6	22.2	22.7
	8H	21.1	21.7	21.6	22.2	22.7	21.2	21.8	21.7	22.3	22.8
	12H	21.1	21.6	21.6	22.1	22.7	21.2	21.7	21.7	22.2	22.8
12H	4H	20.8	21.5	21.3	22.0	22.5	20.8	21.5	21.3	22.0	22.4
	6H	21.1	21.7	21.6	22.1	22.7	21.1	21.7	21.6	22.1	22.7
	8H	21.1	21.6	21.6	22.1	22.7	21.2	21.7	21.7	22.2	22.8

Maximum UGR = 22.8

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POLAR GRAPH



Maximum Candela = 5097.514 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.)

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