IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-930-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-L120-930-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	10000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	6553	6574	6579
55	5737	5584	5691
65	4447	4336	4476
75	2845	2948	2727
85	563	1066	867

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4256.592	4256.592	4256.592	4256.592	4256.592
5	4273.673	4246.449	4224.563	4214.421	4215.488
10	4200.008	4177.054	4158.371	4149.830	4138.620
15	4076.164	4054.812	4047.872	4032.392	4025.452
20	3900.541	3890.933	3889.865	3848.228	3854.634
25	3677.409	3672.605	3664.064	3640.042	3649.651
30	3420.113	3409.437	3386.483	3386.483	3395.558
35	3109.436	3100.362	3090.753	3080.611	3083.814
40	2771.535	2771.535	2775.272	2759.258	2759.258
45	2421.891	2428.296	2429.364	2407.478	2431.499
50	2070.644	2053.029	2058.901	2020.466	2072.246
55	1719.932	1684.701	1674.024	1676.694	1706.053
60	1342.529	1328.650	1301.960	1339.860	1350.003
65	982.208	996.087	957.653	986.479	988.614
70	669.930	667.261	659.788	653.382	642.706
75	384.876	369.930	398.755	377.937	368.862
80	153.737	152.136	183.096	187.367	172.420
85	25.623	33.096	48.577	52.313	39.502
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1541.84	N.A.	15.40
0-30	3225.45	N.A.	32.30
0-40	5158.78	N.A.	51.60
0-60	8533.91	N.A.	85.30
0-80	9930.66	N.A.	99.30
0-90	9999.96	N.A.	100.00
10-90	9598.11	N.A.	96.00
20-40	3616.94	N.A.	36.20
20-50	5482.09	N.A.	54.80
40-70	4352.25	N.A.	43.50
60-80	1396.75	N.A.	14.00
70-80	419.63	N.A.	4.20
80-90	69.29	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	9999.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	401.84
10-20	1140.00
20-30	1683.61
30-40	1933.34
40-50	1865.14
50-60	1509.99
60-70	977.12
70-80	419.63
80-90	69.29
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

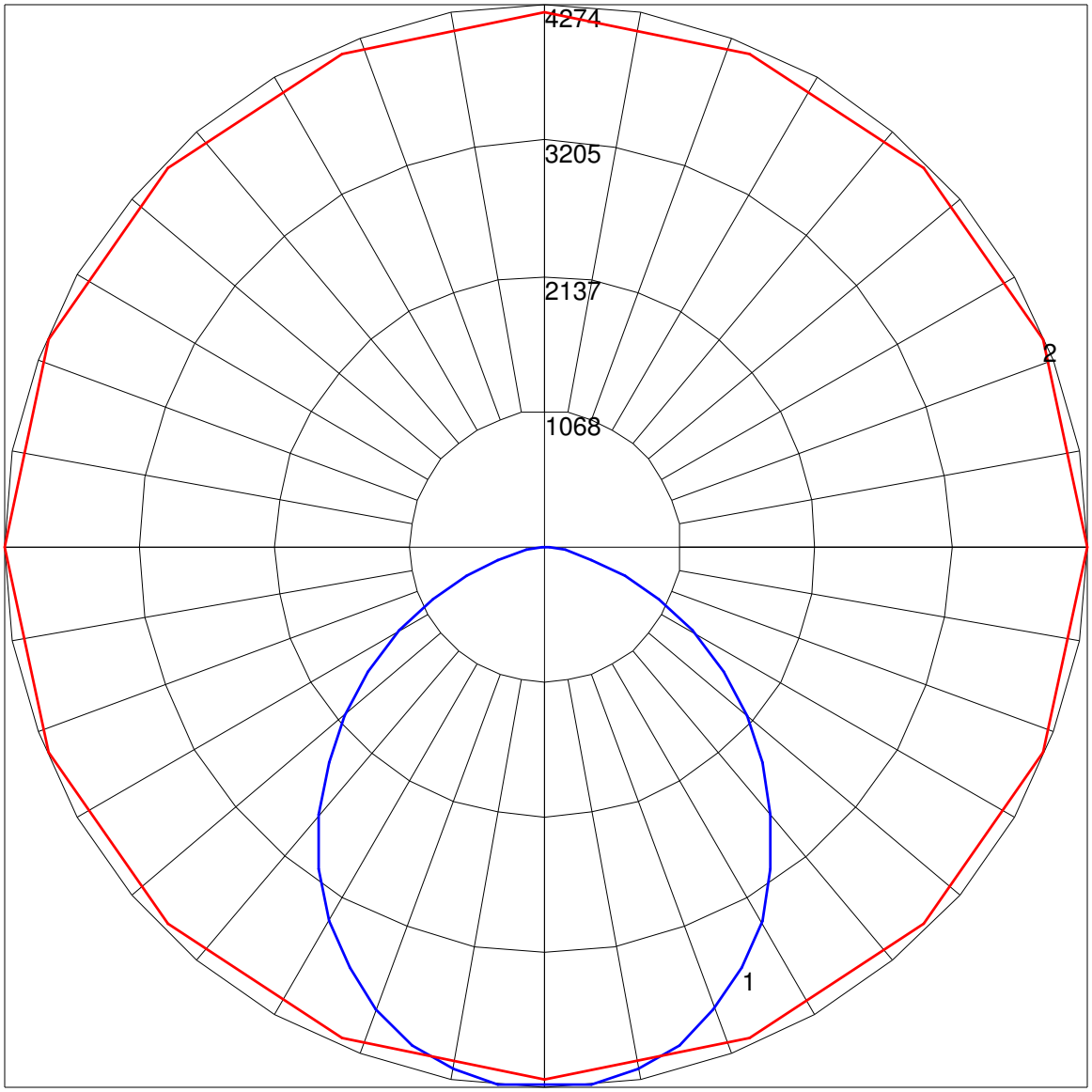
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.8	19.4	18.2	19.7	20.0	17.8	19.4	18.2	19.7	20.0
	3H	19.1	20.5	19.5	20.8	21.2	19.0	20.4	19.4	20.8	21.1
	4H	19.4	20.7	19.8	21.1	21.4	19.4	20.7	19.8	21.0	21.4
	6H	19.5	20.7	20.0	21.1	21.5	19.5	20.7	19.9	21.1	21.5
	8H	19.5	20.7	20.0	21.1	21.5	19.5	20.7	20.0	21.1	21.5
	12H	19.5	20.6	20.0	21.0	21.4	19.5	20.6	20.0	21.0	21.4
4H	2H	18.2	19.5	18.6	19.9	20.3	18.3	19.6	18.7	19.9	20.3
	3H	19.7	20.8	20.1	21.2	21.6	19.7	20.7	20.1	21.1	21.5
	4H	20.1	21.1	20.5	21.5	21.9	20.1	21.0	20.5	21.4	21.9
	6H	20.3	21.1	20.7	21.6	22.0	20.3	21.1	20.8	21.6	22.0
	8H	20.3	21.1	20.8	21.5	22.0	20.3	21.1	20.8	21.6	22.0
	12H	20.3	21.0	20.8	21.5	22.0	20.3	21.0	20.8	21.5	22.0
8H	4H	20.2	21.0	20.7	21.5	21.9	20.2	21.0	20.7	21.4	21.9
	6H	20.5	21.1	21.0	21.6	22.1	20.5	21.2	21.0	21.6	22.1
	8H	20.5	21.1	21.0	21.6	22.1	20.6	21.2	21.1	21.7	22.2
	12H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.2
12H	4H	20.2	20.9	20.7	21.4	21.9	20.2	20.9	20.7	21.4	21.8
	6H	20.5	21.1	21.0	21.5	22.1	20.5	21.1	21.0	21.5	22.1
	8H	20.5	21.0	21.0	21.5	22.1	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.2

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POLAR GRAPH



Maximum Candela = 4273.673 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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