IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-850-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19835.0
[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 2x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L120-850-CS-SAF12125-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	12720
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	101.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
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	8607	8560	8327
55	7115	6974	6583
65	5159	5098	4730
75	3071	3162	3135
85	671	925	952

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	5541.326	5541.326	5541.326	5541.326	5541.326
5	5568.818	5533.994	5501.614	5488.784	5490.006
10	5485.729	5447.850	5426.467	5412.415	5414.859
15	5350.709	5315.885	5306.109	5276.173	5291.447
20	5155.205	5127.101	5128.323	5086.167	5103.885
25	4888.219	4871.723	4863.170	4821.014	4844.231
30	4568.081	4559.527	4530.813	4477.049	4503.320
35	4169.130	4177.683	4124.530	4038.997	4087.873
40	3693.810	3734.744	3649.210	3553.902	3612.553
45	3180.611	3227.043	3163.504	3048.035	3077.360
50	2660.081	2636.254	2644.196	2515.896	2512.231
55	2132.830	2081.510	2090.674	1972.150	1973.372
60	1610.467	1574.421	1564.646	1457.118	1476.058
65	1139.424	1116.818	1125.983	1044.115	1044.726
70	745.360	723.366	749.637	716.646	700.150
75	415.447	411.170	427.666	442.939	424.000
80	175.954	169.844	192.450	219.942	196.726
85	30.548	34.213	42.156	62.317	43.378
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2019.79	N.A.	15.90
0-30	4253.02	N.A.	33.40
0-40	6821.36	N.A.	53.60
0-60	11076.32	N.A.	87.10
0-80	12643.87	N.A.	99.40
0-90	12720.04	N.A.	100.00
10-90	12196.25	N.A.	95.90
20-40	4801.56	N.A.	37.70
20-50	7218.07	N.A.	56.70
40-70	5355.79	N.A.	42.10
60-80	1567.55	N.A.	12.30
70-80	466.73	N.A.	3.70
80-90	76.17	N.A.	0.60
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	12720.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	523.79
10-20	1496.00
20-30	2233.23
30-40	2568.33
40-50	2416.51
50-60	1838.46
60-70	1100.82
70-80	466.73
80-90	76.17
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

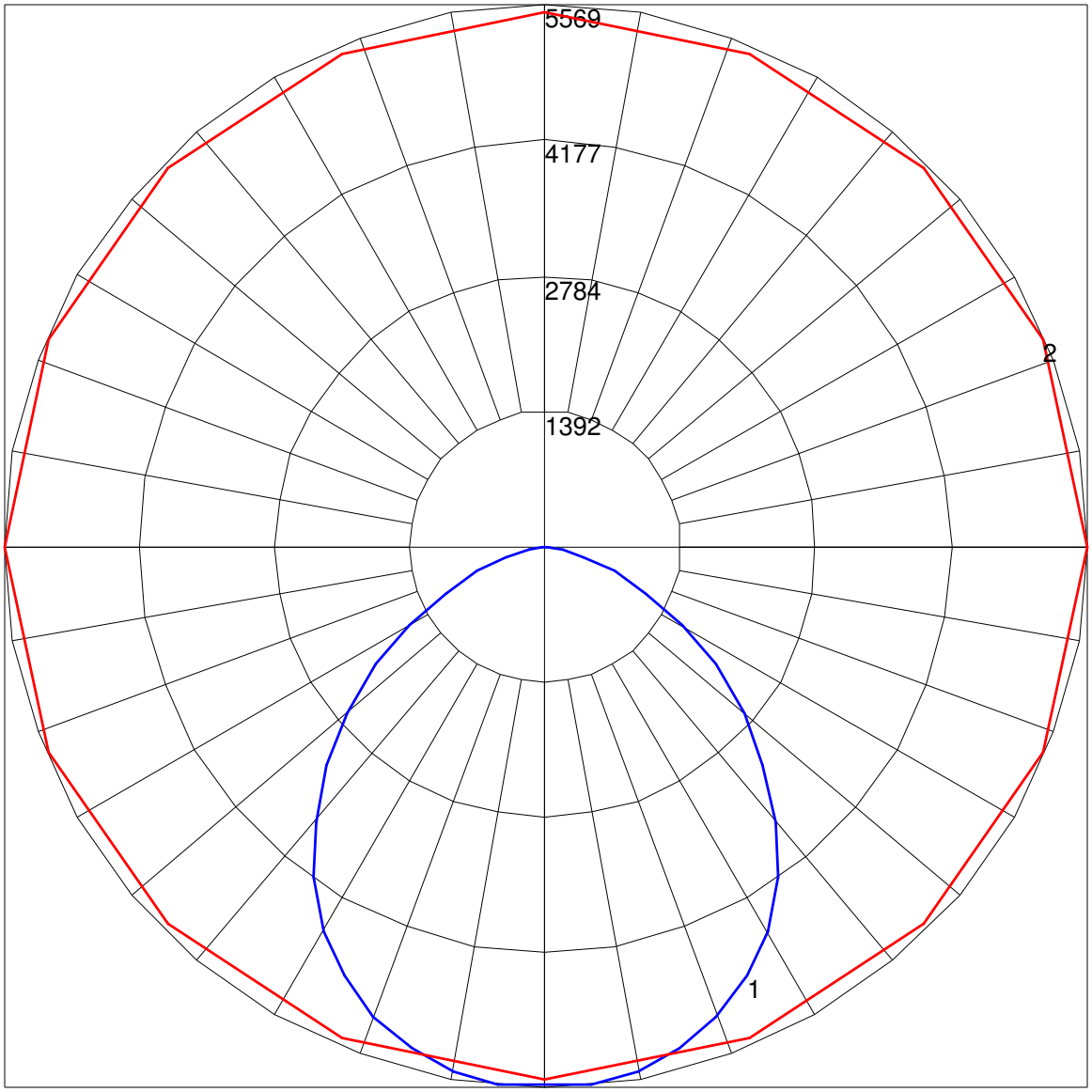
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.3	19.8	18.7	20.1	20.5	17.8	19.4	18.2	19.7	20.0
	3H	19.4	20.8	19.8	21.1	21.4	19.0	20.3	19.3	20.6	21.0
	4H	19.7	20.9	20.1	21.3	21.7	19.3	20.6	19.7	20.9	21.3
	6H	19.8	21.0	20.2	21.3	21.7	19.5	20.6	19.9	21.0	21.4
	8H	19.8	20.9	20.2	21.3	21.7	19.5	20.6	19.9	21.0	21.4
	12H	19.8	20.8	20.2	21.2	21.6	19.5	20.5	19.9	20.9	21.4
4H	2H	18.7	20.0	19.1	20.3	20.7	18.3	19.6	18.7	19.9	20.3
	3H	20.0	21.0	20.4	21.4	21.8	19.6	20.7	20.0	21.1	21.5
	4H	20.3	21.3	20.8	21.7	22.1	20.1	21.0	20.5	21.4	21.8
	6H	20.5	21.3	21.0	21.7	22.2	20.3	21.1	20.8	21.6	22.0
	8H	20.5	21.3	21.0	21.7	22.2	20.3	21.1	20.8	21.5	22.0
	12H	20.5	21.2	21.0	21.6	22.1	20.3	21.0	20.8	21.5	22.0
8H	4H	20.4	21.2	20.9	21.6	22.1	20.2	20.9	20.6	21.4	21.8
	6H	20.6	21.3	21.1	21.7	22.2	20.5	21.1	21.0	21.6	22.1
	8H	20.7	21.2	21.2	21.7	22.2	20.6	21.1	21.1	21.6	22.1
	12H	20.7	21.1	21.2	21.6	22.2	20.6	21.1	21.1	21.6	22.1
12H	4H	20.4	21.1	20.9	21.6	22.0	20.2	20.8	20.6	21.3	21.8
	6H	20.6	21.2	21.2	21.7	22.2	20.5	21.0	21.0	21.5	22.0
	8H	20.7	21.2	21.2	21.7	22.2	20.6	21.1	21.1	21.6	22.1

Maximum UGR = 22.2

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POLAR GRAPH



Maximum Candela = 5568.818 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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