IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-927-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] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-927-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	5243
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	58.5
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)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5238	5254	5259
55	4586	4464	4549
65	3554	3465	3578
75	2274	2356	2180
85	450	852	693

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2231.548	2231.548	2231.548	2231.548	2231.548
5	2240.503	2226.231	2214.757	2209.439	2209.999
10	2201.883	2189.850	2180.055	2175.577	2169.700
15	2136.957	2125.763	2122.125	2114.009	2110.371
20	2044.886	2039.848	2039.289	2017.460	2020.818
25	1927.907	1925.389	1920.911	1908.318	1913.355
30	1793.018	1787.421	1775.387	1775.387	1780.145
35	1630.144	1625.386	1620.349	1615.032	1616.711
40	1452.997	1452.997	1454.956	1446.560	1446.560
45	1269.693	1273.051	1273.611	1262.137	1274.730
50	1085.550	1076.315	1079.393	1059.244	1086.389
55	901.686	883.216	877.619	879.018	894.410
60	703.830	696.554	682.561	702.431	707.748
65	514.929	522.206	502.056	517.168	518.288
70	351.215	349.816	345.898	342.540	336.943
75	201.774	193.938	209.050	198.136	193.378
80	80.598	79.758	95.990	98.228	90.393
85	13.433	17.351	25.467	27.426	20.709
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	808.32	N.A.	15.40
0-30	1690.96	N.A.	32.30
0-40	2704.53	N.A.	51.60
0-60	4473.96	N.A.	85.30
0-80	5206.22	N.A.	99.30
0-90	5242.55	N.A.	100.00
10-90	5031.88	N.A.	96.00
20-40	1896.21	N.A.	36.20
20-50	2874.02	N.A.	54.80
40-70	2281.7	N.A.	43.50
60-80	732.26	N.A.	14.00
70-80	220.00	N.A.	4.20
80-90	36.33	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	5242.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	210.67
10-20	597.65
20-30	882.64
30-40	1013.56
40-50	977.81
50-60	791.62
60-70	512.26
70-80	220.00
80-90	36.33
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	63	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	45	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

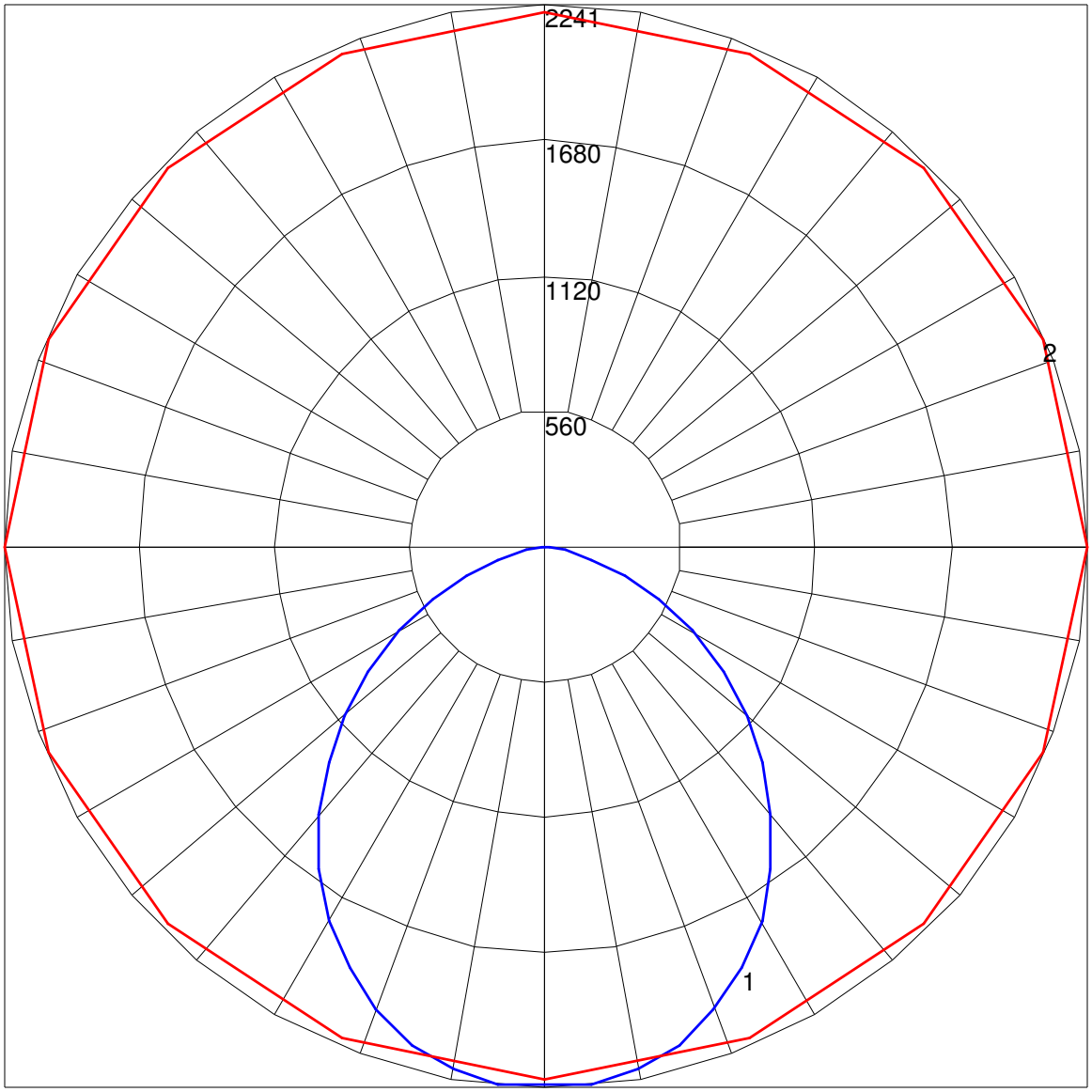
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.1	18.6	17.4	18.9	19.2	17.1	18.6	17.4	18.9	19.3
	3H	18.3	19.7	18.7	20.1	20.4	18.3	19.7	18.7	20.0	20.4
	4H	18.7	20.0	19.1	20.3	20.7	18.6	19.9	19.0	20.3	20.6
	6H	18.8	20.0	19.2	20.4	20.8	18.8	20.0	19.2	20.4	20.7
	8H	18.8	20.0	19.2	20.3	20.7	18.8	19.9	19.2	20.3	20.7
	12H	18.8	19.9	19.2	20.3	20.7	18.8	19.9	19.2	20.3	20.7
4H	2H	17.5	18.8	17.9	19.2	19.5	17.5	18.8	17.9	19.2	19.5
	3H	19.0	20.0	19.4	20.4	20.8	18.9	20.0	19.3	20.4	20.8
	4H	19.4	20.3	19.8	20.8	21.2	19.3	20.3	19.8	20.7	21.2
	6H	19.6	20.4	20.0	20.8	21.3	19.6	20.4	20.0	20.9	21.3
	8H	19.6	20.4	20.0	20.8	21.3	19.6	20.4	20.1	20.8	21.3
	12H	19.6	20.3	20.0	20.7	21.2	19.6	20.3	20.1	20.8	21.3
8H	4H	19.5	20.3	20.0	20.7	21.2	19.5	20.3	19.9	20.7	21.2
	6H	19.8	20.4	20.2	20.9	21.4	19.8	20.4	20.3	20.9	21.4
	8H	19.8	20.4	20.3	20.9	21.4	19.8	20.4	20.4	20.9	21.4
	12H	19.8	20.3	20.3	20.8	21.3	19.9	20.4	20.4	20.9	21.4
12H	4H	19.5	20.2	20.0	20.7	21.2	19.5	20.2	19.9	20.6	21.1
	6H	19.8	20.3	20.3	20.8	21.3	19.8	20.4	20.3	20.8	21.4
	8H	19.8	20.3	20.3	20.8	21.4	19.9	20.4	20.4	20.9	21.4

Maximum UGR = 21.4

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POLAR GRAPH



Maximum Candela = 2240.503 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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