IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-930-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] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-930-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	5439
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	5435	5451	5456
55	4758	4631	4719
65	3688	3595	3712
75	2359	2445	2261
85	466	884	719

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2315.231	2315.231	2315.231	2315.231	2315.231
5	2324.522	2309.714	2297.810	2292.293	2292.874
10	2284.454	2271.969	2261.807	2257.161	2251.064
15	2217.093	2205.480	2201.705	2193.285	2189.510
20	2121.569	2116.343	2115.762	2093.115	2096.599
25	2000.204	1997.591	1992.945	1979.880	1985.106
30	1860.256	1854.449	1841.964	1841.964	1846.900
35	1691.274	1686.338	1681.112	1675.595	1677.337
40	1507.484	1507.484	1509.517	1500.806	1500.806
45	1317.307	1320.791	1321.371	1309.467	1322.533
50	1126.258	1116.676	1119.870	1098.965	1127.129
55	935.500	916.337	910.530	911.981	927.951
60	730.224	722.675	708.158	728.772	734.289
65	534.239	541.788	520.883	536.562	537.724
70	364.386	362.934	358.869	355.385	349.578
75	209.341	201.211	216.890	205.566	200.630
80	83.620	82.749	99.589	101.912	93.782
85	13.937	18.002	26.422	28.454	21.486
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	838.63	N.A.	15.40
0-30	1754.37	N.A.	32.30
0-40	2805.95	N.A.	51.60
0-60	4641.74	N.A.	85.30
0-80	5401.45	N.A.	99.30
0-90	5439.14	N.A.	100.00
10-90	5220.57	N.A.	96.00
20-40	1967.32	N.A.	36.20
20-50	2981.8	N.A.	54.80
40-70	2367.26	N.A.	43.50
60-80	759.72	N.A.	14.00
70-80	228.25	N.A.	4.20
80-90	37.69	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	5439.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	218.57
10-20	620.06
20-30	915.74
30-40	1051.57
40-50	1014.48
50-60	821.31
60-70	531.47
70-80	228.25
80-90	37.69
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	97	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

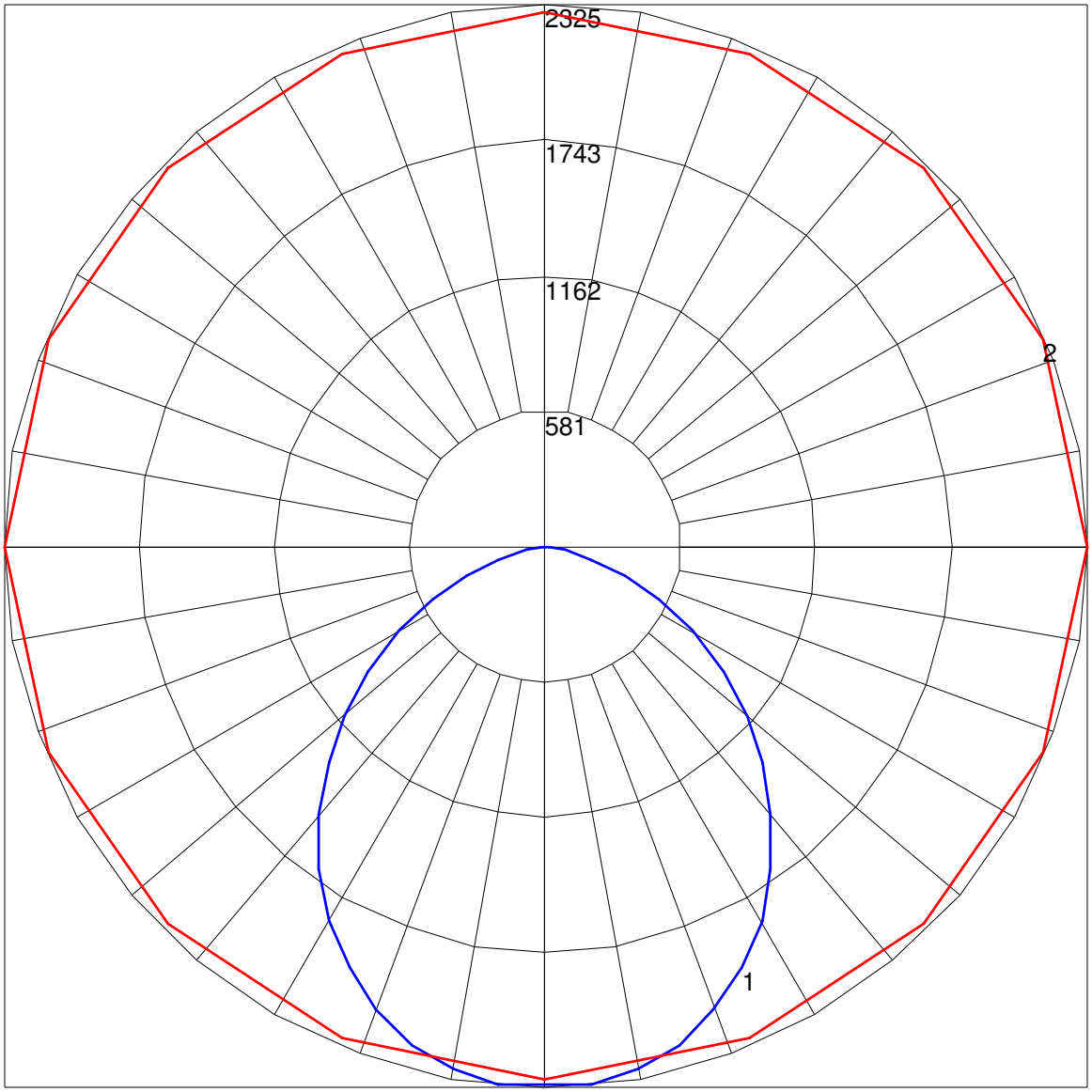
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.2	18.7	17.5	19.0	19.3	17.2	18.7	17.5	19.0	19.4
	3H	18.4	19.8	18.8	20.2	20.5	18.4	19.8	18.8	20.1	20.5
	4H	18.8	20.1	19.2	20.4	20.8	18.7	20.0	19.1	20.4	20.7
	6H	18.9	20.1	19.3	20.5	20.9	18.9	20.1	19.3	20.4	20.8
	8H	18.9	20.1	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
	12H	18.9	20.0	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
4H	2H	17.6	18.9	18.0	19.3	19.6	17.6	18.9	18.0	19.3	19.6
	3H	19.1	20.1	19.5	20.5	20.9	19.0	20.1	19.4	20.5	20.9
	4H	19.5	20.4	19.9	20.9	21.3	19.4	20.4	19.9	20.8	21.3
	6H	19.7	20.5	20.1	20.9	21.4	19.7	20.5	20.1	20.9	21.4
	8H	19.7	20.5	20.1	20.9	21.4	19.7	20.5	20.2	20.9	21.4
	12H	19.7	20.4	20.1	20.8	21.3	19.7	20.4	20.2	20.9	21.4
8H	4H	19.6	20.4	20.1	20.8	21.3	19.6	20.4	20.0	20.8	21.3
	6H	19.9	20.5	20.3	21.0	21.5	19.9	20.5	20.4	21.0	21.5
	8H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.5	21.0	21.5
	12H	19.9	20.4	20.4	20.9	21.4	20.0	20.5	20.5	21.0	21.5
12H	4H	19.6	20.3	20.1	20.8	21.3	19.6	20.3	20.0	20.7	21.2
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.5	20.4	20.9	21.5
	8H	19.9	20.4	20.4	20.9	21.5	20.0	20.5	20.5	21.0	21.5

Maximum UGR = 21.5

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POLAR GRAPH



Maximum Candela = 2324.522 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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