IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-940-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-L30-940-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	2562
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	27.3
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	2560	2568	2570
55	2241	2181	2223
65	1737	1694	1748
75	1111	1151	1065
85	220	417	339

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1090.516	1090.516	1090.516	1090.516	1090.516
5	1094.893	1087.918	1082.311	1079.712	1079.986
10	1076.020	1070.139	1065.353	1063.164	1060.293
15	1044.292	1038.821	1037.043	1033.077	1031.300
20	999.298	996.836	996.563	985.896	987.537
25	942.133	940.902	938.714	932.560	935.021
30	876.215	873.480	867.599	867.599	869.924
35	796.621	794.296	791.835	789.236	790.057
40	710.053	710.053	711.010	706.907	706.907
45	620.476	622.117	622.390	616.783	622.937
50	530.488	525.975	527.479	517.633	530.898
55	440.637	431.611	428.876	429.560	437.082
60	343.949	340.393	333.555	343.265	345.864
65	251.637	255.192	245.346	252.731	253.278
70	171.633	170.949	169.034	167.393	164.658
75	98.603	94.774	102.159	96.825	94.500
80	39.387	38.976	46.908	48.002	44.173
85	6.564	8.479	12.445	13.402	10.120
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	395.01	N.A.	15.40
0-30	826.34	N.A.	32.30
0-40	1321.65	N.A.	51.60
0-60	2186.34	N.A.	85.30
0-80	2544.18	N.A.	99.30
0-90	2561.94	N.A.	100.00
10-90	2458.99	N.A.	96.00
20-40	926.64	N.A.	36.20
20-50	1404.48	N.A.	54.80
40-70	1115.02	N.A.	43.50
60-80	357.84	N.A.	14.00
70-80	107.51	N.A.	4.20
80-90	17.75	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	2561.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.95
10-20	292.06
20-30	431.33
30-40	495.31
40-50	477.84
50-60	386.85
60-70	250.33
70-80	107.51
80-90	17.75
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

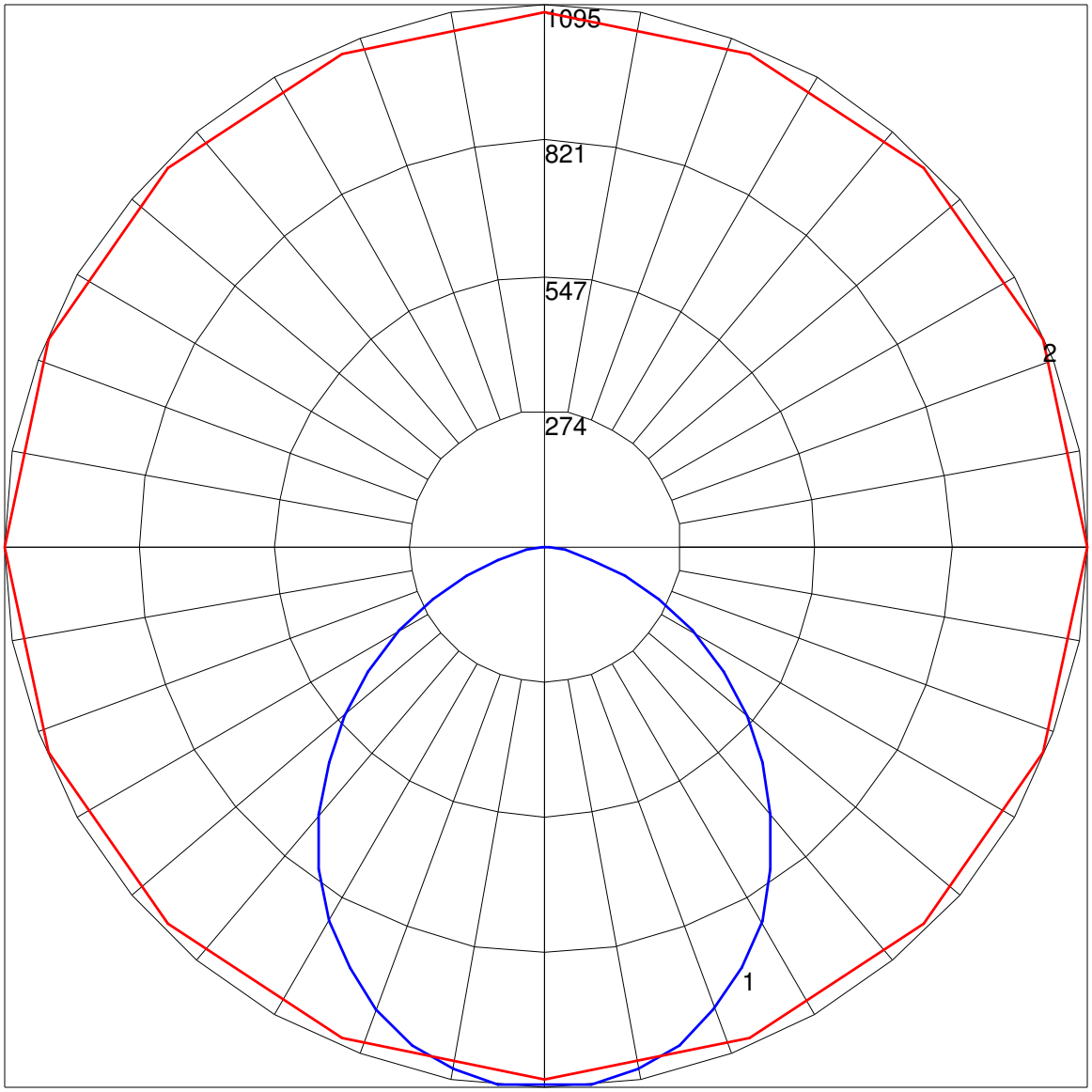
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.6	16.1	14.9	16.4	16.7	14.6	16.1	14.9	16.4	16.8
	3H	15.8	17.2	16.2	17.6	17.9	15.8	17.2	16.2	17.5	17.9
	4H	16.2	17.5	16.6	17.8	18.2	16.1	17.4	16.5	17.8	18.1
	6H	16.3	17.5	16.7	17.9	18.3	16.3	17.5	16.7	17.9	18.2
	8H	16.3	17.5	16.7	17.8	18.2	16.3	17.4	16.7	17.8	18.2
	12H	16.3	17.4	16.7	17.8	18.2	16.3	17.4	16.7	17.8	18.2
4H	2H	15.0	16.3	15.4	16.7	17.0	15.0	16.3	15.4	16.7	17.0
	3H	16.5	17.5	16.9	17.9	18.3	16.4	17.5	16.8	17.9	18.3
	4H	16.9	17.8	17.3	18.3	18.7	16.8	17.8	17.3	18.2	18.7
	6H	17.1	17.9	17.5	18.3	18.8	17.1	17.9	17.5	18.4	18.8
	8H	17.1	17.9	17.5	18.3	18.8	17.1	17.9	17.6	18.3	18.8
	12H	17.1	17.8	17.5	18.2	18.7	17.1	17.8	17.6	18.3	18.8
8H	4H	17.0	17.8	17.5	18.2	18.7	17.0	17.8	17.4	18.2	18.7
	6H	17.3	17.9	17.8	18.4	18.9	17.3	17.9	17.8	18.4	18.9
	8H	17.3	17.9	17.8	18.4	18.9	17.3	17.9	17.9	18.4	18.9
	12H	17.3	17.8	17.8	18.3	18.8	17.4	17.9	17.9	18.4	18.9
12H	4H	17.0	17.7	17.5	18.2	18.7	17.0	17.7	17.4	18.1	18.6
	6H	17.3	17.8	17.8	18.3	18.8	17.3	17.9	17.8	18.3	18.9
	8H	17.3	17.8	17.8	18.3	18.9	17.4	17.9	17.9	18.4	18.9

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 1094.893 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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