IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-940-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-L65-940-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	5570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	5565	5583	5588
55	4873	4742	4833
65	3777	3682	3801
75	2416	2503	2316
85	478	906	736

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2371.019	2371.019	2371.019	2371.019	2371.019
5	2380.534	2365.370	2353.179	2347.529	2348.124
10	2339.501	2326.715	2316.308	2311.551	2305.306
15	2270.517	2258.623	2254.758	2246.135	2242.270
20	2172.691	2167.339	2166.744	2143.551	2147.120
25	2048.401	2045.725	2040.968	2027.587	2032.939
30	1905.082	1899.135	1886.349	1886.349	1891.404
35	1732.028	1726.973	1721.621	1715.971	1717.755
40	1543.809	1543.809	1545.890	1536.970	1536.970
45	1349.049	1352.617	1353.212	1341.020	1354.401
50	1153.397	1143.584	1146.855	1125.446	1154.289
55	958.042	938.417	932.470	933.957	950.311
60	747.820	740.089	725.222	746.333	751.982
65	547.113	554.844	533.435	549.491	550.681
70	373.166	371.680	367.517	363.949	358.002
75	214.385	206.059	222.116	210.519	205.465
80	85.635	84.743	101.989	104.368	96.042
85	14.273	18.435	27.058	29.140	22.003
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	858.84	N.A.	15.40
0-30	1796.65	N.A.	32.30
0-40	2873.56	N.A.	51.60
0-60	4753.58	N.A.	85.30
0-80	5531.61	N.A.	99.30
0-90	5570.21	N.A.	100.00
10-90	5346.37	N.A.	96.00
20-40	2014.72	N.A.	36.20
20-50	3053.65	N.A.	54.80
40-70	2424.3	N.A.	43.50
60-80	778.02	N.A.	14.00
70-80	233.75	N.A.	4.20
80-90	38.60	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	5570.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	223.83
10-20	635.00
20-30	937.81
30-40	1076.91
40-50	1038.93
50-60	841.10
60-70	544.28
70-80	233.75
80-90	38.60
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

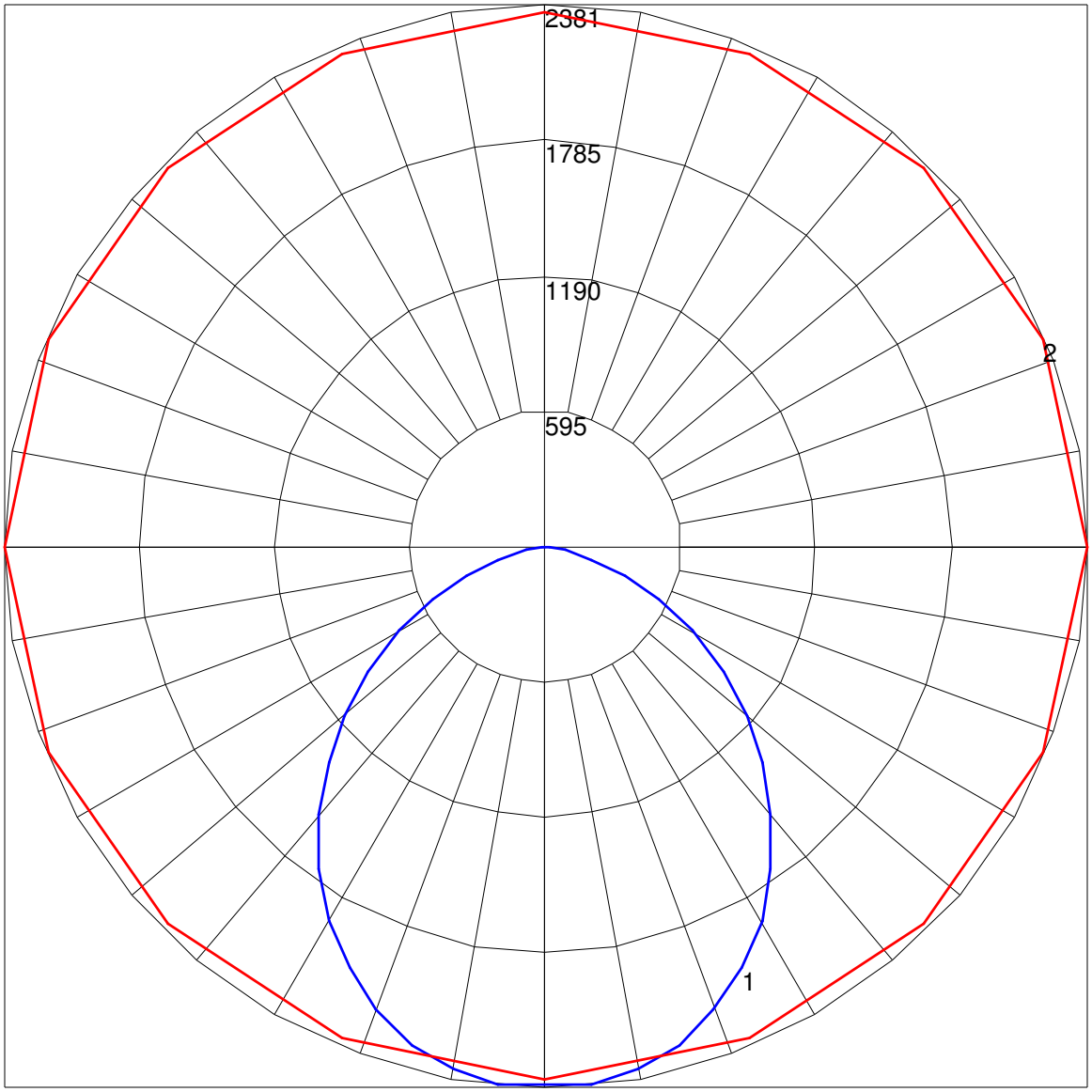
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.3	18.8	17.6	19.1	19.4	17.3	18.8	17.6	19.1	19.5
	3H	18.5	19.9	18.9	20.3	20.6	18.5	19.9	18.9	20.2	20.6
	4H	18.9	20.2	19.3	20.5	20.9	18.8	20.1	19.2	20.5	20.8
	6H	19.0	20.2	19.4	20.6	21.0	19.0	20.2	19.4	20.5	20.9
	8H	19.0	20.2	19.4	20.5	20.9	19.0	20.1	19.4	20.5	20.9
	12H	19.0	20.1	19.4	20.5	20.9	19.0	20.1	19.4	20.5	20.9
4H	2H	17.7	19.0	18.1	19.4	19.7	17.7	19.0	18.1	19.4	19.7
	3H	19.2	20.2	19.6	20.6	21.0	19.1	20.2	19.5	20.6	21.0
	4H	19.6	20.5	20.0	21.0	21.4	19.5	20.5	20.0	20.9	21.4
	6H	19.8	20.6	20.2	21.0	21.5	19.8	20.6	20.2	21.1	21.5
	8H	19.8	20.6	20.2	21.0	21.5	19.8	20.6	20.3	21.0	21.5
	12H	19.8	20.5	20.2	20.9	21.4	19.8	20.5	20.3	21.0	21.5
8H	4H	19.7	20.5	20.2	20.9	21.4	19.7	20.5	20.1	20.9	21.4
	6H	20.0	20.6	20.4	21.1	21.6	20.0	20.6	20.5	21.1	21.6
	8H	20.0	20.6	20.5	21.1	21.6	20.0	20.6	20.6	21.1	21.6
	12H	20.0	20.5	20.5	21.0	21.5	20.1	20.6	20.6	21.1	21.6
12H	4H	19.7	20.4	20.2	20.9	21.4	19.7	20.4	20.1	20.8	21.3
	6H	20.0	20.5	20.5	21.0	21.5	20.0	20.6	20.5	21.0	21.6
	8H	20.0	20.5	20.5	21.0	21.6	20.1	20.6	20.6	21.1	21.6

Maximum UGR = 21.6

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POLAR GRAPH



Maximum Candela = 2380.534 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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