IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L30-927-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-L30-927-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	2411
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	2409	2417	2419
55	2109	2053	2092
65	1635	1594	1645
75	1046	1084	1002
85	207	392	319

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1026.369	1026.369	1026.369	1026.369	1026.369
5	1030.487	1023.923	1018.646	1016.200	1016.458
10	1012.725	1007.190	1002.685	1000.626	997.923
15	982.863	977.715	976.041	972.309	970.635
20	940.516	938.199	937.942	927.902	929.447
25	886.713	885.555	883.496	877.703	880.020
30	824.673	822.099	816.564	816.564	818.752
35	749.761	747.573	745.256	742.811	743.583
40	668.285	668.285	669.186	665.325	665.325
45	583.977	585.522	585.779	580.502	586.294
50	499.283	495.036	496.451	487.184	499.669
55	414.718	406.223	403.648	404.292	411.371
60	323.717	320.370	313.934	323.073	325.519
65	236.834	240.181	230.914	237.864	238.379
70	161.537	160.893	159.091	157.546	154.972
75	92.803	89.199	96.150	91.130	88.942
80	37.070	36.684	44.149	45.179	41.575
85	6.178	7.980	11.713	12.614	9.525
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	371.77	N.A.	15.40
0-30	777.73	N.A.	32.30
0-40	1243.91	N.A.	51.60
0-60	2057.73	N.A.	85.30
0-80	2394.53	N.A.	99.30
0-90	2411.23	N.A.	100.00
10-90	2314.34	N.A.	96.00
20-40	872.13	N.A.	36.20
20-50	1321.87	N.A.	54.80
40-70	1049.43	N.A.	43.50
60-80	336.79	N.A.	14.00
70-80	101.18	N.A.	4.20
80-90	16.71	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	2411.23	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.89
10-20	274.88
20-30	405.96
30-40	466.17
40-50	449.73
50-60	364.09
60-70	235.61
70-80	101.18
80-90	16.71
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	46	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

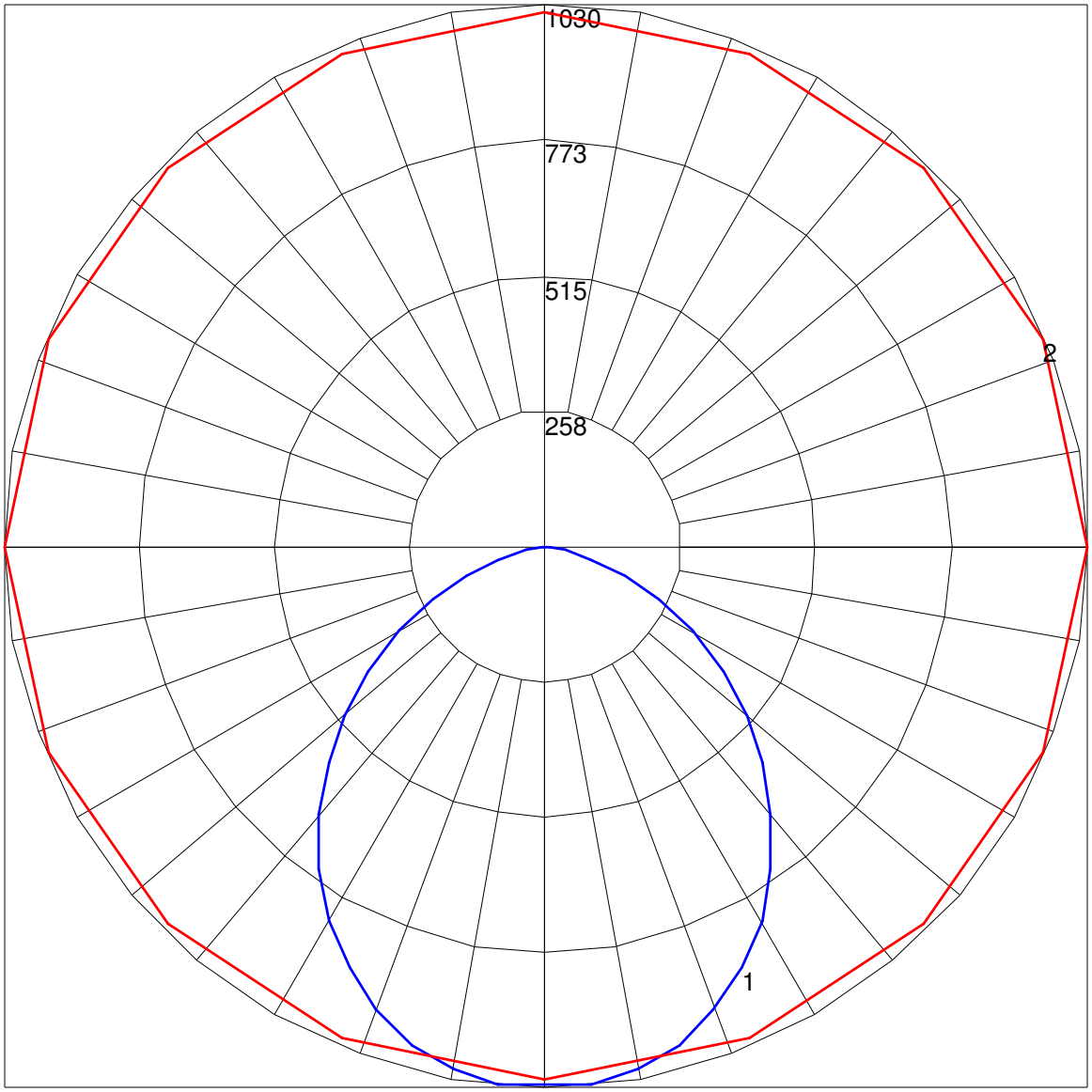
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.4	15.9	14.7	16.2	16.5	14.4	15.9	14.7	16.2	16.6
	3H	15.6	17.0	16.0	17.4	17.7	15.6	17.0	16.0	17.3	17.7
	4H	16.0	17.3	16.4	17.6	18.0	15.9	17.2	16.3	17.6	17.9
	6H	16.1	17.3	16.5	17.7	18.1	16.1	17.3	16.5	17.6	18.0
	8H	16.1	17.3	16.5	17.6	18.0	16.1	17.2	16.5	17.6	18.0
	12H	16.1	17.2	16.5	17.6	18.0	16.1	17.2	16.5	17.6	18.0
4H	2H	14.8	16.1	15.2	16.5	16.8	14.8	16.1	15.2	16.5	16.8
	3H	16.3	17.3	16.7	17.7	18.1	16.2	17.3	16.6	17.7	18.1
	4H	16.7	17.6	17.1	18.1	18.5	16.6	17.6	17.1	18.0	18.5
	6H	16.9	17.7	17.3	18.1	18.6	16.9	17.7	17.3	18.1	18.6
	8H	16.9	17.7	17.3	18.1	18.6	16.9	17.7	17.4	18.1	18.6
	12H	16.9	17.6	17.3	18.0	18.5	16.9	17.6	17.4	18.1	18.6
8H	4H	16.8	17.6	17.3	18.0	18.5	16.8	17.6	17.2	18.0	18.5
	6H	17.1	17.7	17.5	18.2	18.7	17.1	17.7	17.6	18.2	18.7
	8H	17.1	17.7	17.6	18.2	18.7	17.1	17.7	17.7	18.2	18.7
	12H	17.1	17.6	17.6	18.1	18.6	17.2	17.7	17.7	18.2	18.7
12H	4H	16.8	17.5	17.3	18.0	18.4	16.8	17.5	17.2	17.9	18.4
	6H	17.1	17.6	17.6	18.1	18.6	17.1	17.7	17.6	18.1	18.7
	8H	17.1	17.6	17.6	18.1	18.7	17.2	17.7	17.7	18.2	18.7

Maximum UGR = 18.7

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POLAR GRAPH



Maximum Candela = 1030.487 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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