IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-940-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] 6-42 LED 22" ARRAYS 2'x4' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L60-940-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	5138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	48.9
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)	3.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3367	3377	3380
55	2948	2869	2924
65	2285	2227	2300
75	1462	1514	1401
85	289	548	446

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2186.845	2186.845	2186.845	2186.845	2186.845
5	2195.621	2181.634	2170.390	2165.179	2165.728
10	2157.775	2145.982	2136.383	2131.995	2126.236
15	2094.149	2083.179	2079.614	2071.661	2068.096
20	2003.922	1998.986	1998.437	1977.046	1980.337
25	1889.287	1886.819	1882.431	1870.090	1875.026
30	1757.100	1751.615	1739.822	1739.822	1744.485
35	1597.488	1592.826	1587.890	1582.679	1584.324
40	1423.890	1423.890	1425.810	1417.582	1417.582
45	1244.258	1247.549	1248.098	1236.854	1249.195
50	1063.804	1054.754	1057.770	1038.025	1064.626
55	883.624	865.523	860.038	861.410	876.493
60	689.731	682.601	668.888	688.360	693.570
65	504.614	511.745	491.999	506.808	507.905
70	344.180	342.809	338.969	335.678	330.193
75	197.732	190.053	204.862	194.167	189.505
80	78.983	78.160	94.067	96.261	88.582
85	13.164	17.003	24.956	26.876	20.294
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	792.13	N.A.	15.40
0-30	1657.09	N.A.	32.30
0-40	2650.35	N.A.	51.60
0-60	4384.34	N.A.	85.30
0-80	5101.93	N.A.	99.30
0-90	5137.53	N.A.	100.00
10-90	4931.08	N.A.	96.00
20-40	1858.22	N.A.	36.20
20-50	2816.45	N.A.	54.80
40-70	2235.99	N.A.	43.50
60-80	717.59	N.A.	14.00
70-80	215.59	N.A.	4.20
80-90	35.60	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	5137.53	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.45
10-20	585.68
20-30	864.96
30-40	993.26
40-50	958.23
50-60	775.76
60-70	502.00
70-80	215.59
80-90	35.60
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	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

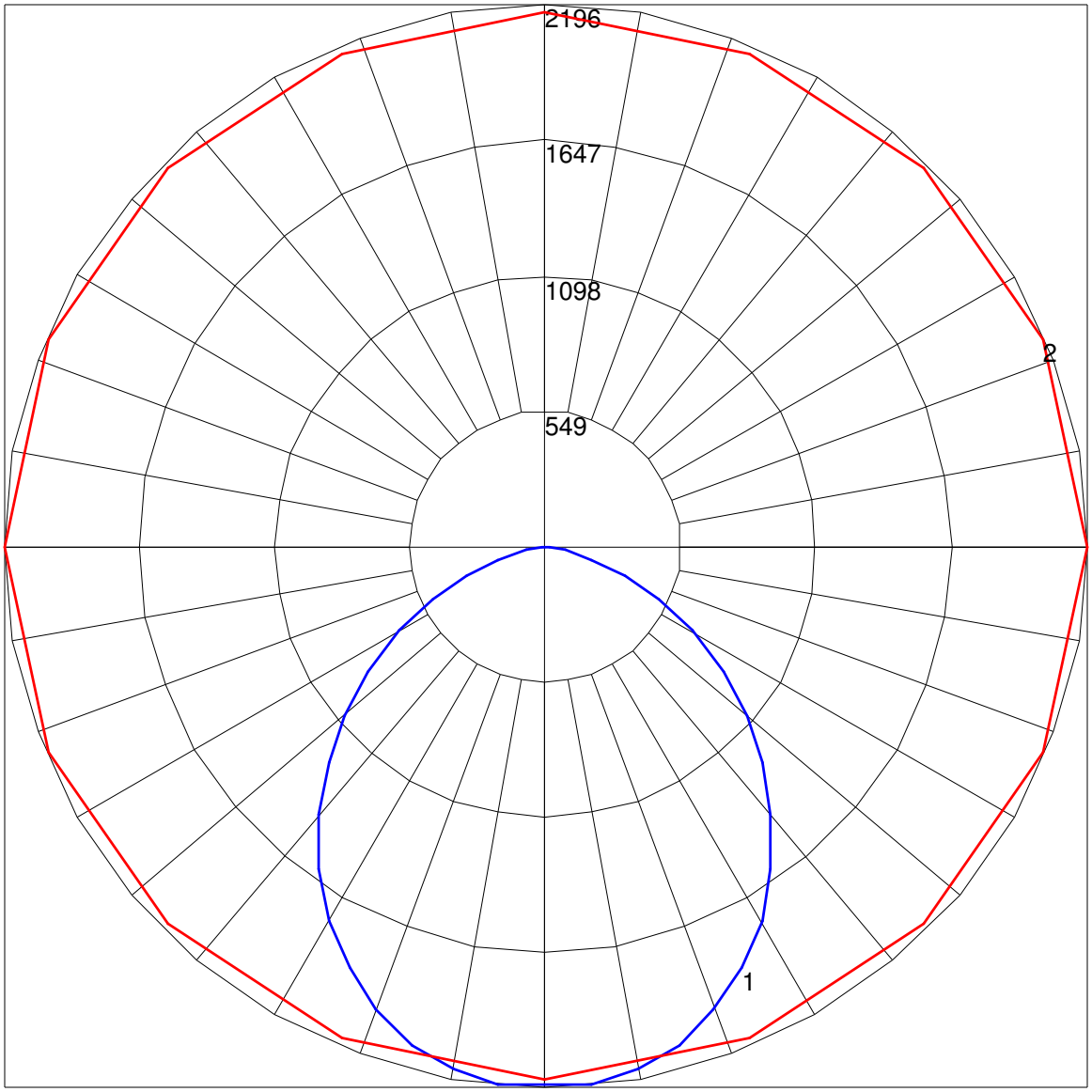
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.5	17.1	15.9	17.4	17.7	15.5	17.1	15.9	17.4	17.7
	3H	16.8	18.2	17.2	18.5	18.9	16.7	18.1	17.1	18.5	18.8
	4H	17.1	18.4	17.5	18.8	19.1	17.1	18.4	17.5	18.7	19.1
	6H	17.2	18.4	17.7	18.8	19.2	17.2	18.4	17.6	18.8	19.2
	8H	17.2	18.4	17.7	18.8	19.2	17.2	18.4	17.7	18.8	19.2
	12H	17.2	18.3	17.7	18.7	19.1	17.2	18.3	17.7	18.7	19.1
4H	2H	15.9	17.2	16.3	17.6	18.0	16.0	17.3	16.4	17.6	18.0
	3H	17.4	18.5	17.8	18.9	19.3	17.4	18.4	17.8	18.8	19.2
	4H	17.8	18.8	18.2	19.2	19.6	17.8	18.7	18.2	19.1	19.6
	6H	18.0	18.8	18.4	19.3	19.7	18.0	18.8	18.5	19.3	19.7
	8H	18.0	18.8	18.5	19.2	19.7	18.0	18.8	18.5	19.3	19.7
	12H	18.0	18.7	18.5	19.2	19.7	18.0	18.7	18.5	19.2	19.7
8H	4H	17.9	18.7	18.4	19.2	19.6	17.9	18.7	18.4	19.1	19.6
	6H	18.2	18.8	18.7	19.3	19.8	18.2	18.9	18.7	19.3	19.8
	8H	18.2	18.8	18.7	19.3	19.8	18.3	18.9	18.8	19.4	19.9
	12H	18.2	18.7	18.7	19.2	19.8	18.3	18.8	18.8	19.3	19.9
12H	4H	17.9	18.6	18.4	19.1	19.6	17.9	18.6	18.4	19.1	19.5
	6H	18.2	18.8	18.7	19.2	19.8	18.2	18.8	18.7	19.2	19.8
	8H	18.2	18.7	18.7	19.2	19.8	18.3	18.8	18.8	19.3	19.9

Maximum UGR = 19.9

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POLAR GRAPH



Maximum Candela = 2195.621 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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