IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-827-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-L60-827-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	5863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	3842	3854	3857
55	3364	3274	3337
65	2607	2542	2624
75	1668	1728	1599
85	330	625	508

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2495.577	2495.577	2495.577	2495.577	2495.577
5	2505.591	2489.630	2476.799	2470.852	2471.478
10	2462.402	2448.945	2437.991	2432.984	2426.411
15	2389.795	2377.276	2373.208	2364.132	2360.063
20	2286.829	2281.196	2280.570	2256.159	2259.914
25	2156.010	2153.194	2148.186	2134.103	2139.736
30	2005.162	1998.902	1985.445	1985.445	1990.765
35	1823.016	1817.696	1812.063	1806.116	1807.994
40	1624.910	1624.910	1627.101	1617.712	1617.712
45	1419.919	1423.674	1424.300	1411.469	1425.552
50	1213.988	1203.660	1207.103	1184.570	1214.927
55	1008.371	987.715	981.456	983.021	1000.234
60	787.105	778.968	763.320	785.540	791.486
65	575.854	583.991	561.458	578.358	579.610
70	392.770	391.205	386.824	383.068	376.809
75	225.647	216.884	233.784	221.579	216.258
80	90.134	89.195	107.347	109.850	101.087
85	15.022	19.404	28.480	30.670	23.159
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	903.96	N.A.	15.40
0-30	1891.03	N.A.	32.30
0-40	3024.52	N.A.	51.60
0-60	5003.31	N.A.	85.30
0-80	5822.2	N.A.	99.30
0-90	5862.83	N.A.	100.00
10-90	5627.23	N.A.	96.00
20-40	2120.56	N.A.	36.20
20-50	3214.07	N.A.	54.80
40-70	2551.66	N.A.	43.50
60-80	818.89	N.A.	14.00
70-80	246.02	N.A.	4.20
80-90	40.63	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	5862.83	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	235.59
10-20	668.36
20-30	987.08
30-40	1133.49
40-50	1093.51
50-60	885.28
60-70	572.87
70-80	246.02
80-90	40.63
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

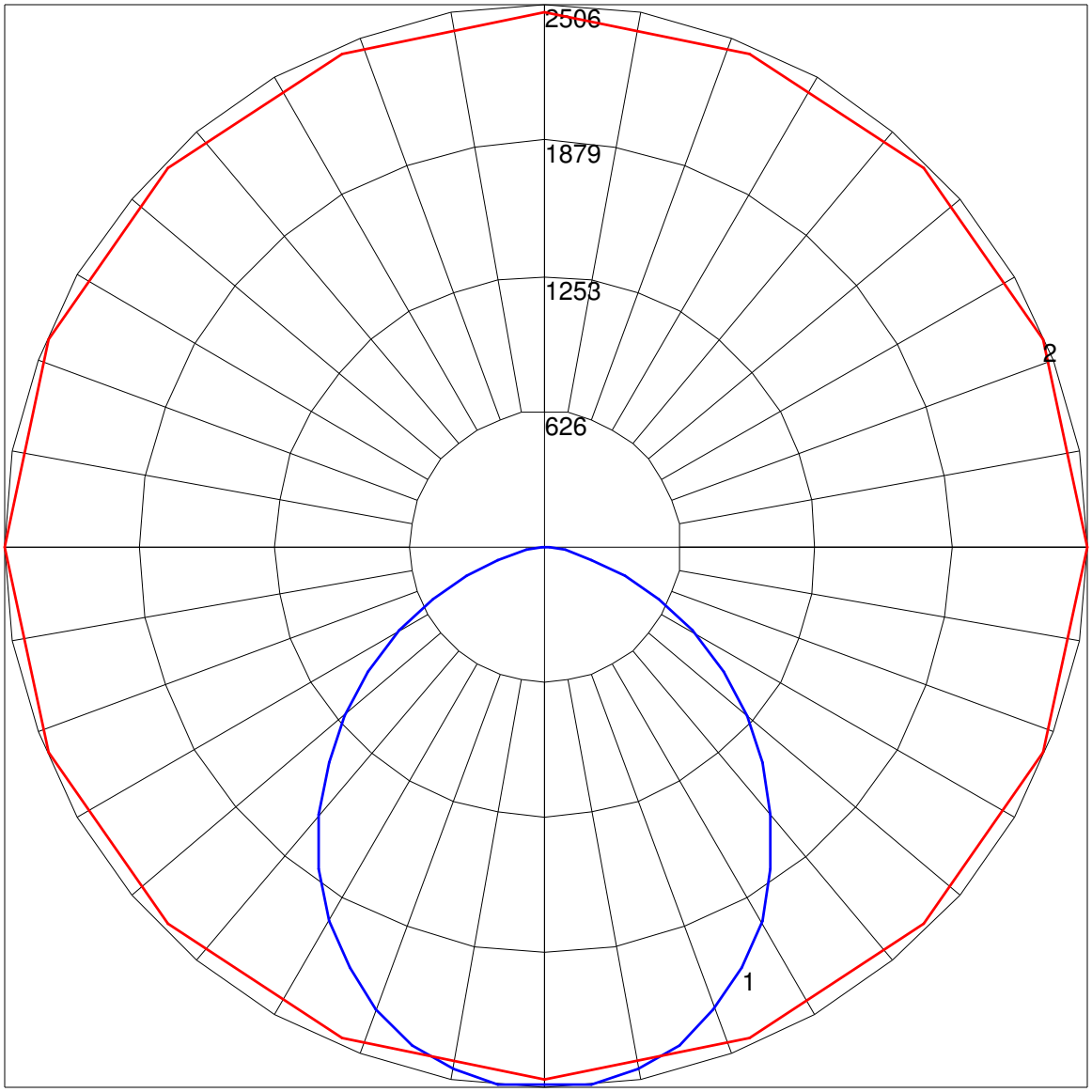
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.9	17.5	16.3	17.8	18.1	15.9	17.5	16.3	17.8	18.1
	3H	17.2	18.6	17.6	18.9	19.3	17.1	18.5	17.5	18.9	19.2
	4H	17.5	18.8	17.9	19.2	19.5	17.5	18.8	17.9	19.1	19.5
	6H	17.6	18.8	18.1	19.2	19.6	17.6	18.8	18.0	19.2	19.6
	8H	17.6	18.8	18.1	19.2	19.6	17.6	18.8	18.1	19.2	19.6
	12H	17.6	18.7	18.1	19.1	19.5	17.6	18.7	18.1	19.1	19.5
4H	2H	16.3	17.6	16.7	18.0	18.4	16.4	17.7	16.8	18.0	18.4
	3H	17.8	18.9	18.2	19.3	19.7	17.8	18.8	18.2	19.2	19.6
	4H	18.2	19.2	18.6	19.6	20.0	18.2	19.1	18.6	19.5	20.0
	6H	18.4	19.2	18.8	19.7	20.1	18.4	19.2	18.9	19.7	20.1
	8H	18.4	19.2	18.9	19.6	20.1	18.4	19.2	18.9	19.7	20.1
	12H	18.4	19.1	18.9	19.6	20.1	18.4	19.1	18.9	19.6	20.1
8H	4H	18.3	19.1	18.8	19.6	20.0	18.3	19.1	18.8	19.5	20.0
	6H	18.6	19.2	19.1	19.7	20.2	18.6	19.3	19.1	19.7	20.2
	8H	18.6	19.2	19.1	19.7	20.2	18.7	19.3	19.2	19.8	20.3
	12H	18.6	19.1	19.1	19.6	20.2	18.7	19.2	19.2	19.7	20.3
12H	4H	18.3	19.0	18.8	19.5	20.0	18.3	19.0	18.8	19.5	19.9
	6H	18.6	19.2	19.1	19.6	20.2	18.6	19.2	19.1	19.6	20.2
	8H	18.6	19.1	19.1	19.6	20.2	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.3

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POLAR GRAPH



Maximum Candela = 2505.591 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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