IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-835-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-L60-835-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	6044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	3961	3973	3977
55	3468	3375	3440
65	2688	2621	2705
75	1720	1782	1648
85	340	645	524

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2572.759	2572.759	2572.759	2572.759	2572.759
5	2583.084	2566.629	2553.401	2547.270	2547.916
10	2538.559	2524.685	2513.393	2508.230	2501.455
15	2463.706	2450.800	2446.606	2437.249	2433.055
20	2357.556	2351.748	2351.103	2325.937	2329.809
25	2222.691	2219.787	2214.625	2200.106	2205.914
30	2067.177	2060.724	2046.850	2046.850	2052.335
35	1879.398	1873.913	1868.106	1861.976	1863.911
40	1675.165	1675.165	1677.423	1667.744	1667.744
45	1463.834	1467.705	1468.351	1455.122	1469.641
50	1251.534	1240.887	1244.436	1221.206	1252.502
55	1039.557	1018.263	1011.810	1013.423	1031.169
60	811.448	803.060	786.927	809.835	815.965
65	593.664	602.053	578.822	596.245	597.536
70	404.918	403.304	398.787	394.916	388.463
75	232.626	223.592	241.015	228.432	222.947
80	92.921	91.953	110.667	113.248	104.214
85	15.487	20.004	29.361	31.619	23.876
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	931.91	N.A.	15.40
0-30	1949.52	N.A.	32.30
0-40	3118.06	N.A.	51.60
0-60	5158.05	N.A.	85.30
0-80	6002.27	N.A.	99.30
0-90	6044.15	N.A.	100.00
10-90	5801.27	N.A.	96.00
20-40	2186.15	N.A.	36.20
20-50	3313.47	N.A.	54.80
40-70	2630.58	N.A.	43.50
60-80	844.22	N.A.	14.00
70-80	253.63	N.A.	4.20
80-90	41.88	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	6044.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	242.88
10-20	689.03
20-30	1017.6
30-40	1168.54
40-50	1127.33
50-60	912.66
60-70	590.59
70-80	253.63
80-90	41.88
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

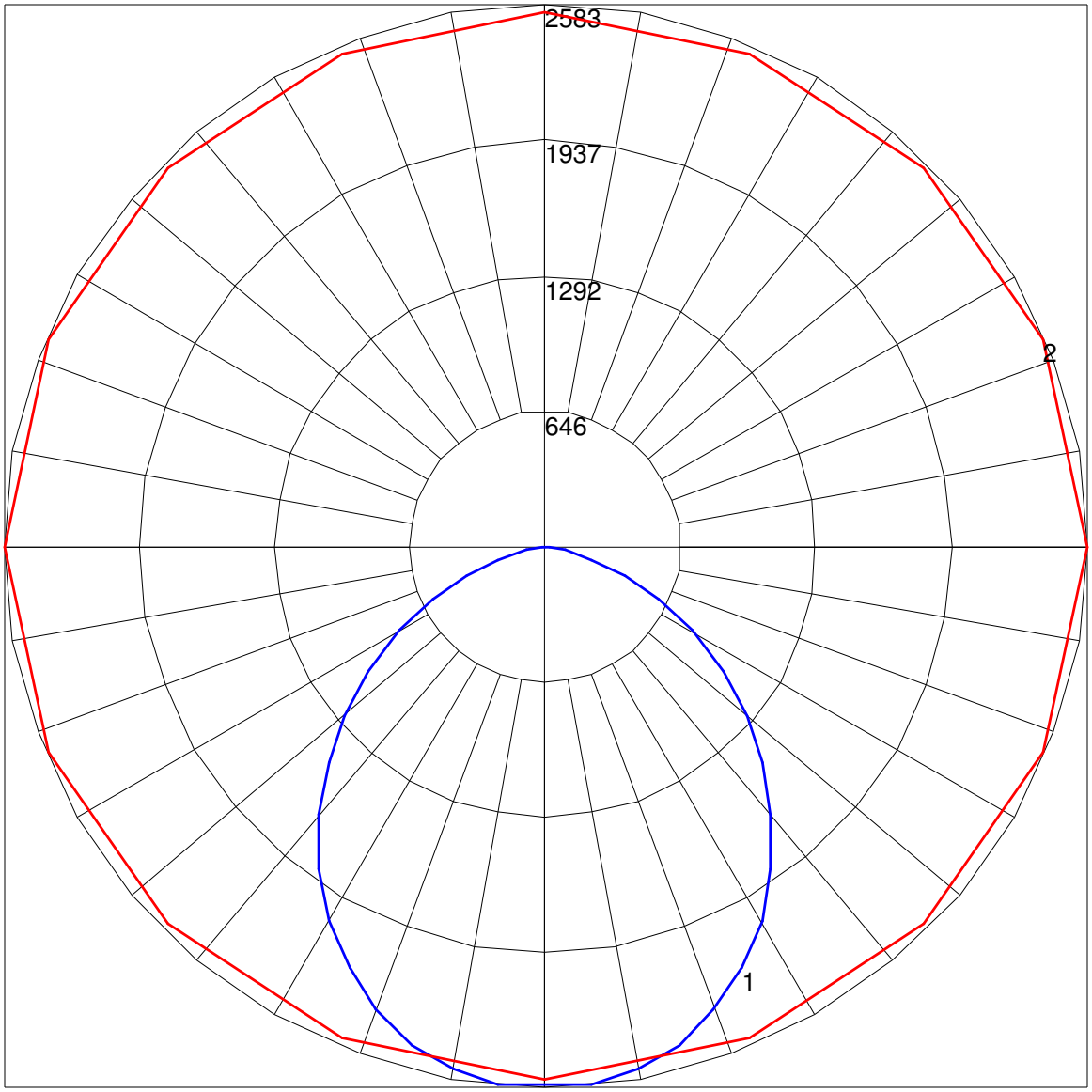
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.7	16.5	18.0	18.3	16.1	17.7	16.5	18.0	18.3
	3H	17.4	18.8	17.8	19.1	19.5	17.3	18.7	17.7	19.1	19.4
	4H	17.7	19.0	18.1	19.4	19.7	17.7	19.0	18.1	19.3	19.7
	6H	17.8	19.0	18.3	19.4	19.8	17.8	19.0	18.2	19.4	19.8
	8H	17.8	19.0	18.3	19.4	19.8	17.8	19.0	18.3	19.4	19.8
	12H	17.8	18.9	18.3	19.3	19.7	17.8	18.9	18.3	19.3	19.7
4H	2H	16.5	17.8	16.9	18.2	18.6	16.6	17.9	17.0	18.2	18.6
	3H	18.0	19.1	18.4	19.5	19.9	18.0	19.0	18.4	19.4	19.8
	4H	18.4	19.4	18.8	19.8	20.2	18.4	19.3	18.8	19.7	20.2
	6H	18.6	19.4	19.0	19.9	20.3	18.6	19.4	19.1	19.9	20.3
	8H	18.6	19.4	19.1	19.8	20.3	18.6	19.4	19.1	19.9	20.3
	12H	18.6	19.3	19.1	19.8	20.3	18.6	19.3	19.1	19.8	20.3
8H	4H	18.5	19.3	19.0	19.8	20.2	18.5	19.3	19.0	19.7	20.2
	6H	18.8	19.4	19.3	19.9	20.4	18.8	19.5	19.3	19.9	20.4
	8H	18.8	19.4	19.3	19.9	20.4	18.9	19.5	19.4	20.0	20.5
	12H	18.8	19.3	19.3	19.8	20.4	18.9	19.4	19.4	19.9	20.5
12H	4H	18.5	19.2	19.0	19.7	20.2	18.5	19.2	19.0	19.7	20.1
	6H	18.8	19.4	19.3	19.8	20.4	18.8	19.4	19.3	19.8	20.4
	8H	18.8	19.3	19.3	19.8	20.4	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.5

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POLAR GRAPH



Maximum Candela = 2583.084 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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