IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L60-930-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-L60-930-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	5017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	3288	3298	3301
55	2878	2801	2855
65	2231	2175	2245
75	1427	1479	1368
85	282	535	435

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2135.390	2135.390	2135.390	2135.390	2135.390
5	2143.960	2130.302	2119.323	2114.234	2114.770
10	2107.004	2095.489	2086.116	2081.831	2076.208
15	2044.876	2034.164	2030.683	2022.917	2019.435
20	1956.772	1951.951	1951.416	1930.528	1933.741
25	1844.834	1842.423	1838.139	1826.088	1830.908
30	1715.757	1710.401	1698.886	1698.886	1703.438
35	1559.901	1555.348	1550.528	1545.440	1547.047
40	1390.387	1390.387	1392.262	1384.228	1384.228
45	1214.982	1218.195	1218.731	1207.751	1219.802
50	1038.773	1029.936	1032.882	1013.601	1039.577
55	862.833	845.158	839.802	841.141	855.870
60	673.502	666.540	653.150	672.163	677.251
65	492.741	499.704	480.423	494.884	495.955
70	336.082	334.743	330.994	327.780	322.424
75	193.080	185.581	200.042	189.598	185.046
80	77.125	76.321	91.853	93.996	86.497
85	12.854	16.603	24.369	26.244	19.817
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	773.49	N.A.	15.40
0-30	1618.1	N.A.	32.30
0-40	2587.99	N.A.	51.60
0-60	4281.18	N.A.	85.30
0-80	4981.88	N.A.	99.30
0-90	5016.64	N.A.	100.00
10-90	4815.05	N.A.	96.00
20-40	1814.5	N.A.	36.20
20-50	2750.18	N.A.	54.80
40-70	2183.38	N.A.	43.50
60-80	700.70	N.A.	14.00
70-80	210.52	N.A.	4.20
80-90	34.76	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	5016.64	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.59
10-20	571.90
20-30	844.61
30-40	969.89
40-50	935.68
50-60	757.51
60-70	490.19
70-80	210.52
80-90	34.76
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

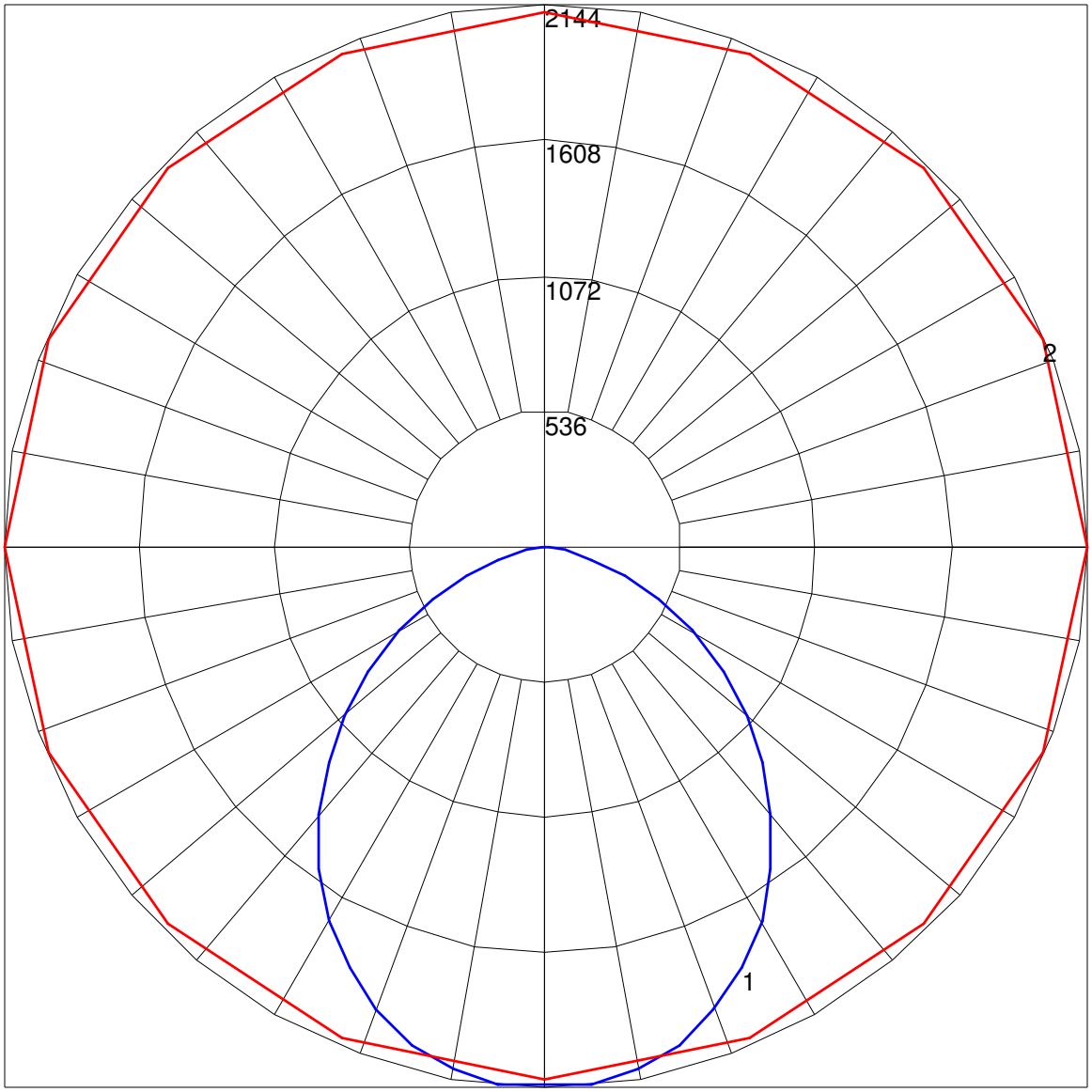
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.4	17.0	15.8	17.3	17.6	15.4	17.0	15.8	17.3	17.6
	3H	16.7	18.1	17.1	18.4	18.8	16.6	18.0	17.0	18.4	18.7
	4H	17.0	18.3	17.4	18.7	19.0	17.0	18.3	17.4	18.6	19.0
	6H	17.1	18.3	17.6	18.7	19.1	17.1	18.3	17.5	18.7	19.1
	8H	17.1	18.3	17.6	18.7	19.1	17.1	18.3	17.6	18.7	19.1
	12H	17.1	18.2	17.6	18.6	19.0	17.1	18.2	17.6	18.6	19.0
4H	2H	15.8	17.1	16.2	17.5	17.9	15.9	17.2	16.3	17.5	17.9
	3H	17.3	18.4	17.7	18.8	19.2	17.3	18.3	17.7	18.7	19.1
	4H	17.7	18.7	18.1	19.1	19.5	17.7	18.6	18.1	19.0	19.5
	6H	17.9	18.7	18.3	19.2	19.6	17.9	18.7	18.4	19.2	19.6
	8H	17.9	18.7	18.4	19.1	19.6	17.9	18.7	18.4	19.2	19.6
	12H	17.9	18.6	18.4	19.1	19.6	17.9	18.6	18.4	19.1	19.6
8H	4H	17.8	18.6	18.3	19.1	19.5	17.8	18.6	18.3	19.0	19.5
	6H	18.1	18.7	18.6	19.2	19.7	18.1	18.8	18.6	19.2	19.7
	8H	18.1	18.7	18.6	19.2	19.7	18.2	18.8	18.7	19.3	19.8
	12H	18.1	18.6	18.6	19.1	19.7	18.2	18.7	18.7	19.2	19.8
12H	4H	17.8	18.5	18.3	19.0	19.5	17.8	18.5	18.3	19.0	19.4
	6H	18.1	18.7	18.6	19.1	19.7	18.1	18.7	18.6	19.1	19.7
	8H	18.1	18.6	18.6	19.1	19.7	18.2	18.7	18.7	19.2	19.8

Maximum UGR = 19.8

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POLAR GRAPH



Maximum Candela = 2143.96 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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