IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-927-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19835.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-04-29
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 1x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-14-L68-927-CS-SAF12125-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	5442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	60.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5276	5247	5104
55	4361	4275	4035
65	3162	3125	2899
75	1883	1938	1921
85	411	567	584

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2370.572	2370.572	2370.572	2370.572	2370.572
5	2382.334	2367.436	2353.584	2348.095	2348.618
10	2346.788	2330.584	2321.436	2315.425	2316.470
15	2289.027	2274.129	2269.947	2257.140	2263.674
20	2205.390	2193.368	2193.890	2175.856	2183.436
25	2091.174	2084.117	2080.458	2062.424	2072.356
30	1954.219	1950.560	1938.276	1915.276	1926.515
35	1783.549	1787.208	1764.469	1727.878	1748.787
40	1580.207	1597.719	1561.128	1520.355	1545.446
45	1360.662	1380.525	1353.343	1303.946	1316.491
50	1137.979	1127.786	1131.184	1076.297	1074.729
55	912.422	890.467	894.388	843.683	844.206
60	688.956	673.535	669.353	623.353	631.456
65	487.444	477.774	481.694	446.671	446.933
70	318.864	309.455	320.694	306.580	299.523
75	177.728	175.898	182.955	189.489	181.387
80	75.273	72.659	82.330	94.091	84.159
85	13.068	14.636	18.034	26.659	18.557
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	864.07	N.A.	15.90
0-30	1819.44	N.A.	33.40
0-40	2918.17	N.A.	53.60
0-60	4738.44	N.A.	87.10
0-80	5409.03	N.A.	99.40
0-90	5441.62	N.A.	100.00
10-90	5217.54	N.A.	95.90
20-40	2054.1	N.A.	37.70
20-50	3087.88	N.A.	56.70
40-70	2291.2	N.A.	42.10
60-80	670.60	N.A.	12.30
70-80	199.67	N.A.	3.70
80-90	32.58	N.A.	0.60
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	5441.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	224.08
10-20	639.99
20-30	955.37
30-40	1098.73
40-50	1033.78
50-60	786.49
60-70	470.93
70-80	199.67
80-90	32.58
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	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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UGR TABLE - CORRECTED

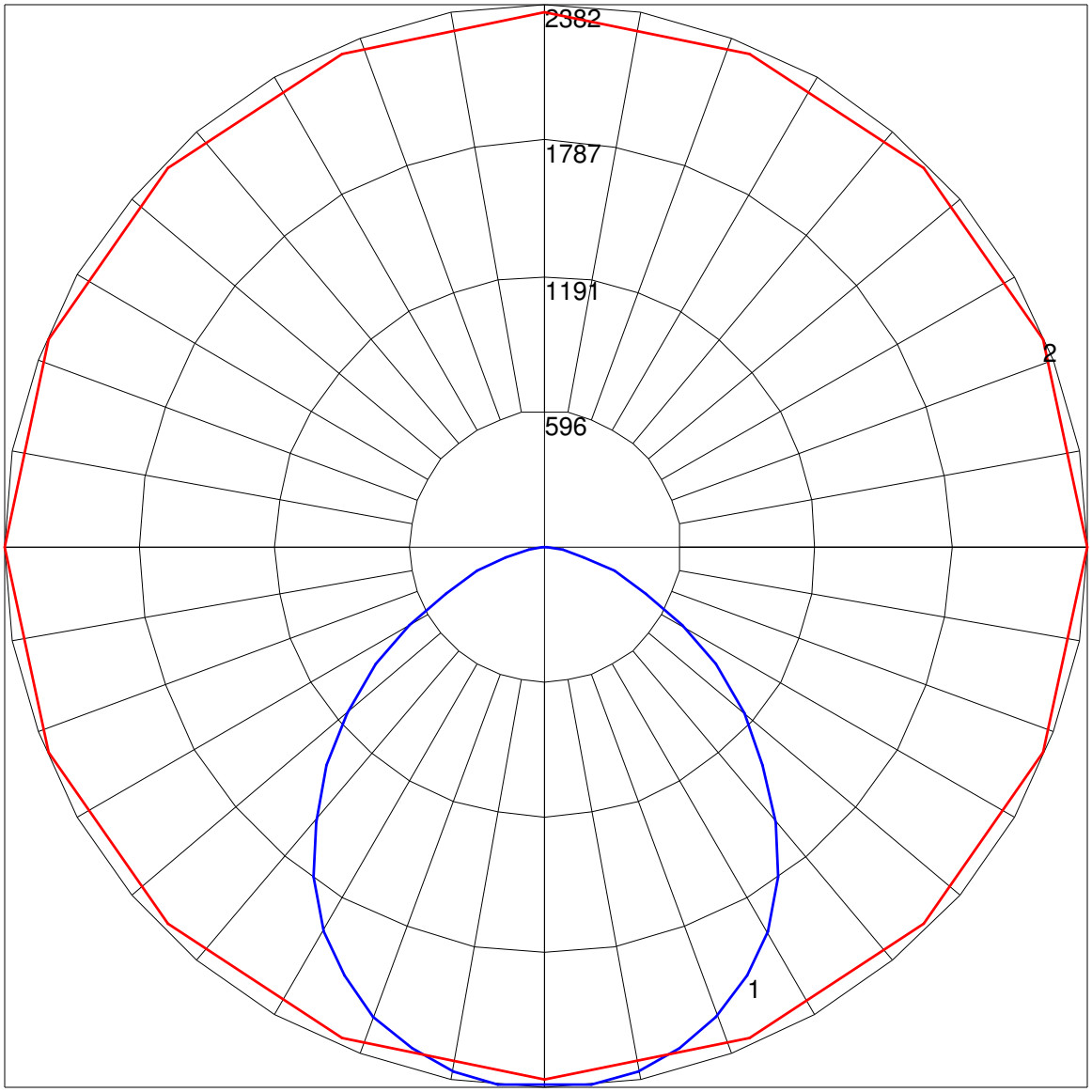
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.7	18.2	17.0	18.5	18.8	16.2	17.7	16.6	18.0	18.3
	3H	17.7	19.1	18.1	19.4	19.8	17.3	18.7	17.7	19.0	19.4
	4H	18.0	19.3	18.4	19.6	20.0	17.6	18.9	18.0	19.3	19.6
	6H	18.1	19.3	18.5	19.7	20.1	17.8	19.0	18.2	19.4	19.7
	8H	18.1	19.3	18.6	19.6	20.0	17.8	19.0	18.3	19.3	19.7
	12H	18.1	19.2	18.5	19.6	20.0	17.8	18.9	18.3	19.3	19.7
4H	2H	17.1	18.3	17.5	18.7	19.1	16.7	17.9	17.1	18.3	18.7
	3H	18.3	19.4	18.7	19.8	20.2	18.0	19.0	18.4	19.4	19.8
	4H	18.7	19.6	19.1	20.0	20.5	18.4	19.3	18.8	19.8	20.2
	6H	18.8	19.7	19.3	20.1	20.6	18.7	19.5	19.1	19.9	20.4
	8H	18.8	19.6	19.3	20.0	20.5	18.7	19.5	19.1	19.9	20.4
	12H	18.8	19.5	19.3	20.0	20.5	18.7	19.4	19.2	19.9	20.3
8H	4H	18.8	19.5	19.2	20.0	20.4	18.5	19.3	19.0	19.7	20.2
	6H	19.0	19.6	19.5	20.1	20.6	18.8	19.5	19.3	20.0	20.4
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.0	19.5	19.5	20.0	20.6	18.9	19.4	19.5	19.9	20.5
12H	4H	18.8	19.4	19.2	19.9	20.4	18.5	19.2	19.0	19.7	20.1
	6H	19.0	19.5	19.5	20.0	20.5	18.8	19.4	19.4	19.9	20.4
	8H	19.0	19.5	19.5	20.0	20.6	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.6

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POLAR GRAPH



Maximum Candela = 2382.334 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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