IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-927-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-L31-927-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	2495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	25.3
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	2419	2406	2341
55	2000	1960	1850
65	1450	1433	1330
75	863	889	881
85	188	260	268

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1087.006	1087.006	1087.006	1087.006	1087.006
5	1092.399	1085.568	1079.216	1076.699	1076.939
10	1076.100	1068.669	1064.475	1061.718	1062.198
15	1049.614	1042.783	1040.865	1034.993	1037.989
20	1011.263	1005.750	1005.990	997.720	1001.196
25	958.890	955.654	953.977	945.707	950.261
30	896.091	894.413	888.780	878.234	883.387
35	817.831	819.509	809.082	792.304	801.892
40	724.591	732.620	715.842	697.146	708.651
45	623.920	633.028	620.564	597.913	603.666
50	521.811	517.137	518.695	493.527	492.808
55	418.383	408.316	410.114	386.864	387.104
60	315.915	308.844	306.926	285.833	289.549
65	223.513	219.079	220.877	204.817	204.937
70	146.212	141.898	147.051	140.580	137.344
75	81.495	80.657	83.892	86.889	83.173
80	34.516	33.317	37.752	43.145	38.591
85	5.992	6.711	8.269	12.224	8.509
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	396.21	N.A.	15.90
0-30	834.29	N.A.	33.40
0-40	1338.1	N.A.	53.60
0-60	2172.77	N.A.	87.10
0-80	2480.27	N.A.	99.40
0-90	2495.21	N.A.	100.00
10-90	2392.46	N.A.	95.90
20-40	941.89	N.A.	37.70
20-50	1415.92	N.A.	56.70
40-70	1050.61	N.A.	42.10
60-80	307.50	N.A.	12.30
70-80	91.56	N.A.	3.70
80-90	14.94	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	2495.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.75
10-20	293.46
20-30	438.08
30-40	503.81
40-50	474.03
50-60	360.64
60-70	215.94
70-80	91.56
80-90	14.94
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

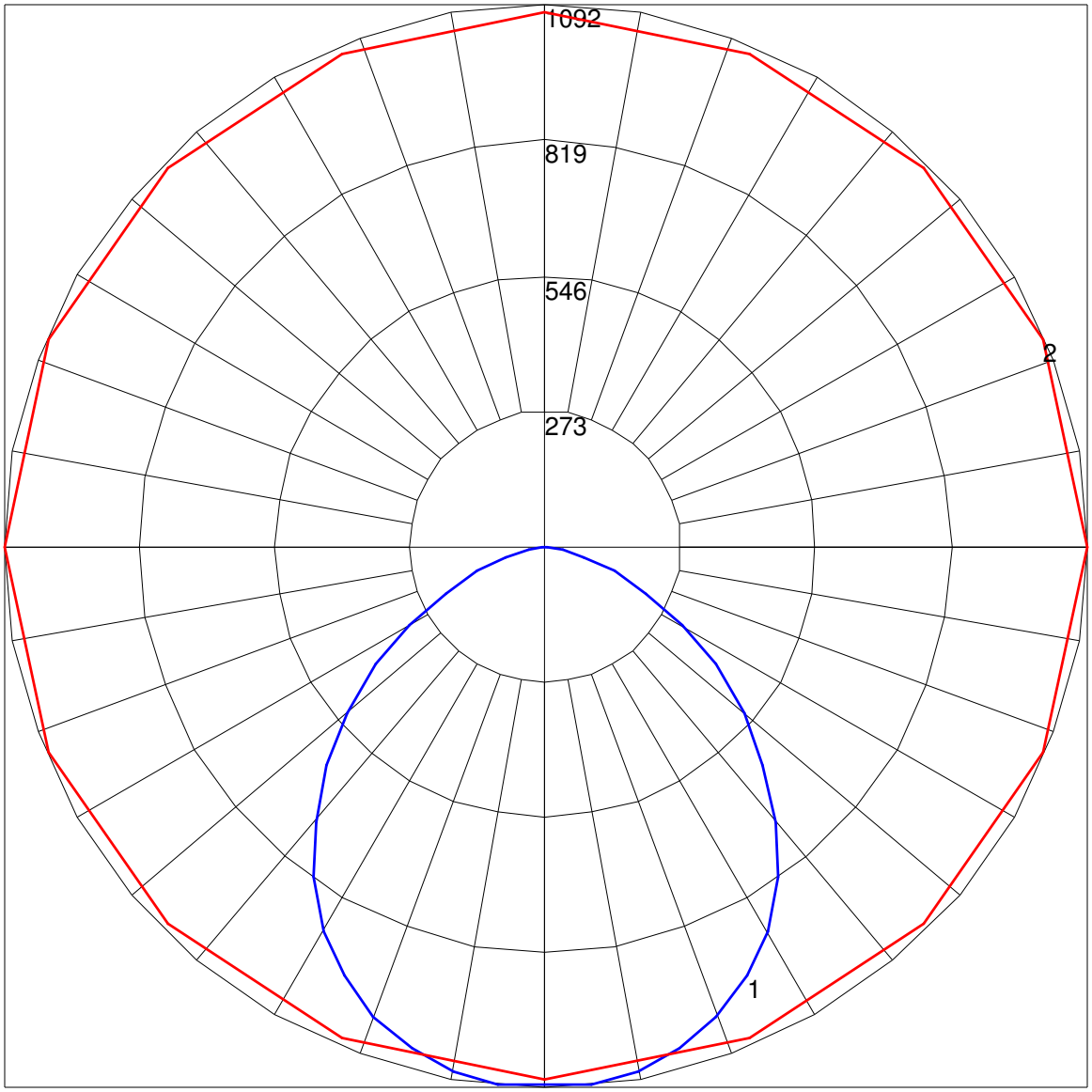
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.0	15.5	14.3	15.8	16.1	13.5	15.0	13.9	15.3	15.6
	3H	15.0	16.4	15.4	16.7	17.1	14.6	16.0	15.0	16.3	16.7
	4H	15.3	16.6	15.7	16.9	17.3	14.9	16.2	15.3	16.6	16.9
	6H	15.4	16.6	15.8	17.0	17.4	15.1	16.3	15.5	16.7	17.0
	8H	15.4	16.6	15.9	16.9	17.3	15.1	16.3	15.6	16.6	17.0
	12H	15.4	16.5	15.8	16.9	17.3	15.1	16.2	15.6	16.6	17.0
4H	2H	14.4	15.6	14.8	16.0	16.4	14.0	15.2	14.4	15.6	16.0
	3H	15.6	16.7	16.0	17.1	17.5	15.3	16.3	15.7	16.7	17.1
	4H	16.0	16.9	16.4	17.3	17.8	15.7	16.6	16.1	17.1	17.5
	6H	16.1	17.0	16.6	17.4	17.9	16.0	16.8	16.4	17.2	17.7
	8H	16.1	16.9	16.6	17.4	17.8	16.0	16.8	16.4	17.2	17.7
	12H	16.1	16.8	16.6	17.3	17.8	16.0	16.7	16.5	17.2	17.6
8H	4H	16.1	16.8	16.5	17.3	17.7	15.8	16.6	16.3	17.0	17.5
	6H	16.3	16.9	16.8	17.4	17.9	16.1	16.8	16.6	17.3	17.7
	8H	16.3	16.9	16.8	17.4	17.9	16.2	16.8	16.7	17.3	17.8
	12H	16.3	16.8	16.8	17.3	17.9	16.2	16.7	16.8	17.2	17.8
12H	4H	16.1	16.7	16.5	17.2	17.7	15.8	16.5	16.3	17.0	17.4
	6H	16.3	16.8	16.8	17.3	17.8	16.1	16.7	16.7	17.2	17.7
	8H	16.3	16.8	16.8	17.3	17.9	16.2	16.7	16.7	17.2	17.8

Maximum UGR = 17.9

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POLAR GRAPH



Maximum Candela = 1092.399 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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