IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-950-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-L31-950-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	2807
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	2722	2707	2633
55	2250	2205	2082
65	1631	1612	1496
75	971	1000	991
85	212	293	301

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1222.882	1222.882	1222.882	1222.882	1222.882
5	1228.949	1221.264	1214.118	1211.287	1211.556
10	1210.613	1202.253	1197.534	1194.433	1194.973
15	1180.816	1173.131	1170.973	1164.367	1167.738
20	1137.671	1131.469	1131.739	1122.436	1126.346
25	1078.752	1075.111	1073.224	1063.921	1069.044
30	1008.102	1006.215	999.878	988.013	993.811
35	920.060	921.948	910.218	891.342	902.128
40	815.165	824.198	805.322	784.289	797.233
45	701.910	712.157	698.135	672.652	679.124
50	587.037	581.779	583.532	555.218	554.409
55	470.681	459.356	461.378	435.222	435.492
60	355.404	347.449	345.292	321.563	325.742
65	251.453	246.464	248.486	230.420	230.554
70	164.489	159.635	165.433	158.152	154.512
75	91.682	90.739	94.379	97.750	93.570
80	38.830	37.482	42.471	48.538	43.414
85	6.741	7.550	9.303	13.752	9.573
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	445.74	N.A.	15.90
0-30	938.57	N.A.	33.40
0-40	1505.36	N.A.	53.60
0-60	2444.37	N.A.	87.10
0-80	2790.3	N.A.	99.40
0-90	2807.11	N.A.	100.00
10-90	2691.52	N.A.	95.90
20-40	1059.63	N.A.	37.70
20-50	1592.91	N.A.	56.70
40-70	1181.94	N.A.	42.10
60-80	345.93	N.A.	12.30
70-80	103.00	N.A.	3.70
80-90	16.81	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	2807.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.59
10-20	330.14
20-30	492.84
30-40	566.79
40-50	533.28
50-60	405.72
60-70	242.93
70-80	103.00
80-90	16.81
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

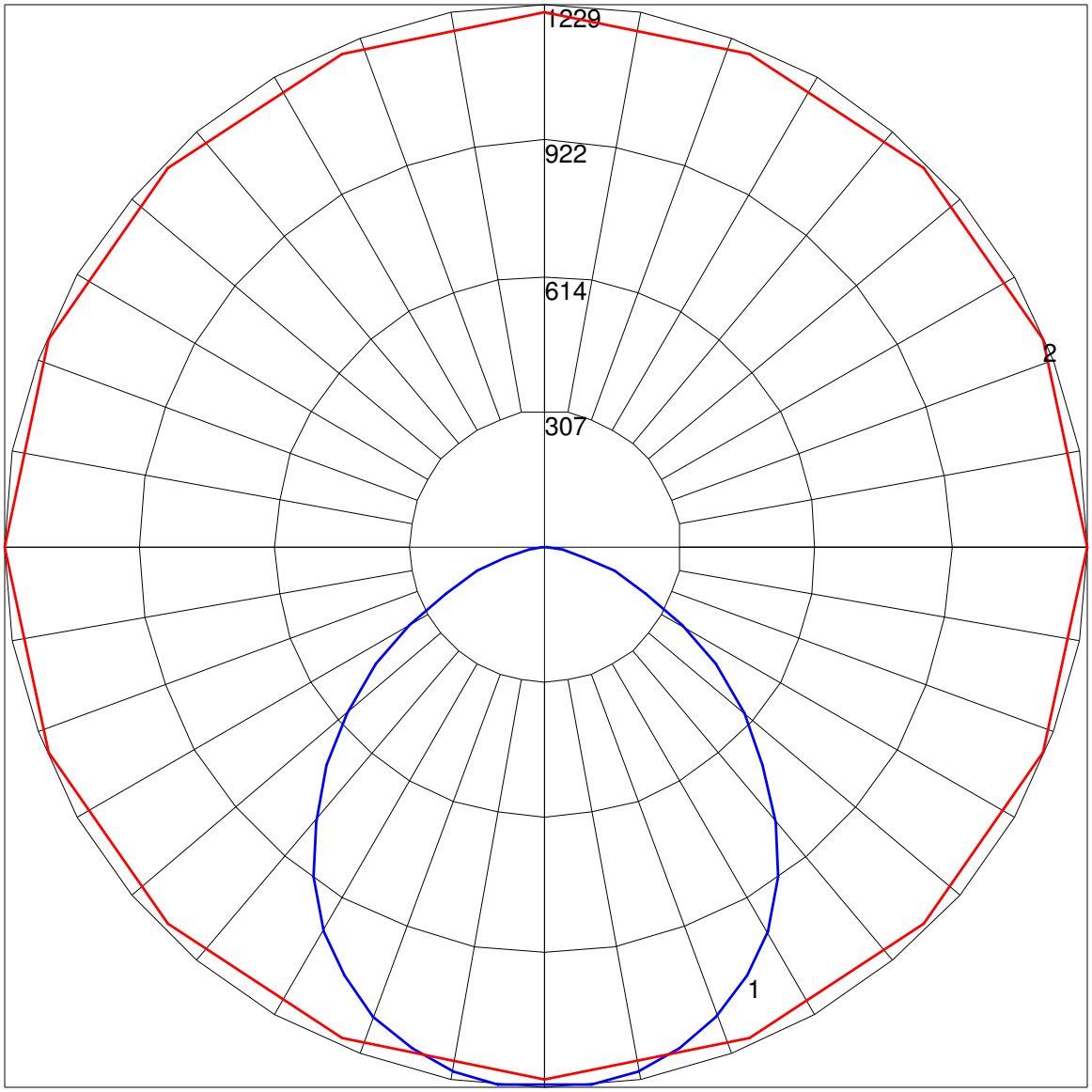
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.4	15.9	14.7	16.2	16.5	13.9	15.4	14.3	15.7	16.0
	3H	15.4	16.8	15.8	17.1	17.5	15.0	16.4	15.4	16.7	17.1
	4H	15.7	17.0	16.1	17.3	17.7	15.3	16.6	15.7	17.0	17.3
	6H	15.8	17.0	16.2	17.4	17.8	15.5	16.7	15.9	17.1	17.4
	8H	15.8	17.0	16.3	17.3	17.7	15.5	16.7	16.0	17.0	17.4
	12H	15.8	16.9	16.2	17.3	17.7	15.5	16.6	16.0	17.0	17.4
4H	2H	14.8	16.0	15.2	16.4	16.8	14.4	15.6	14.8	16.0	16.4
	3H	16.0	17.1	16.4	17.5	17.9	15.7	16.7	16.1	17.1	17.5
	4H	16.4	17.3	16.8	17.7	18.2	16.1	17.0	16.5	17.5	17.9
	6H	16.5	17.4	17.0	17.8	18.3	16.4	17.2	16.8	17.6	18.1
	8H	16.5	17.3	17.0	17.8	18.2	16.4	17.2	16.8	17.6	18.1
	12H	16.5	17.2	17.0	17.7	18.2	16.4	17.1	16.9	17.6	18.0
8H	4H	16.5	17.2	16.9	17.7	18.1	16.2	17.0	16.7	17.4	17.9
	6H	16.7	17.3	17.2	17.8	18.3	16.5	17.2	17.0	17.7	18.1
	8H	16.7	17.3	17.2	17.8	18.3	16.6	17.2	17.1	17.7	18.2
	12H	16.7	17.2	17.2	17.7	18.3	16.6	17.1	17.2	17.6	18.2
12H	4H	16.5	17.1	16.9	17.6	18.1	16.2	16.9	16.7	17.4	17.8
	6H	16.7	17.2	17.2	17.7	18.2	16.5	17.1	17.1	17.6	18.1
	8H	16.7	17.2	17.2	17.7	18.3	16.6	17.1	17.1	17.6	18.2

Maximum UGR = 18.3

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POLAR GRAPH



Maximum Candela = 1228.949 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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