IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-940-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-L31-940-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	2651
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
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	2570	2557	2487
55	2125	2083	1966
65	1541	1522	1413
75	917	944	936
85	200	276	284

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1154.944	1154.944	1154.944	1154.944	1154.944
5	1160.674	1153.416	1146.667	1143.993	1144.248
10	1143.356	1135.461	1131.005	1128.076	1128.585
15	1115.215	1107.957	1105.919	1099.680	1102.863
20	1074.467	1068.610	1068.864	1060.078	1063.771
25	1018.821	1015.383	1013.600	1004.814	1009.653
30	952.096	950.314	944.329	933.123	938.599
35	868.946	870.728	859.650	841.823	852.010
40	769.878	778.409	760.582	740.718	752.942
45	662.915	672.592	659.349	635.283	641.395
50	554.424	549.458	551.113	524.373	523.608
55	444.532	433.836	435.746	411.043	411.298
60	335.660	328.147	326.109	303.698	307.645
65	237.483	232.771	234.682	217.618	217.746
70	155.351	150.767	156.242	149.366	145.928
75	86.589	85.698	89.136	92.319	88.372
80	36.673	35.400	40.111	45.841	41.002
85	6.367	7.131	8.786	12.988	9.041
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	420.97	N.A.	15.90
0-30	886.43	N.A.	33.40
0-40	1421.73	N.A.	53.60
0-60	2308.57	N.A.	87.10
0-80	2635.28	N.A.	99.40
0-90	2651.16	N.A.	100.00
10-90	2541.99	N.A.	95.90
20-40	1000.76	N.A.	37.70
20-50	1504.42	N.A.	56.70
40-70	1116.27	N.A.	42.10
60-80	326.71	N.A.	12.30
70-80	97.28	N.A.	3.70
80-90	15.87	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	2651.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.17
10-20	311.80
20-30	465.46
30-40	535.30
40-50	503.66
50-60	383.18
60-70	229.44
70-80	97.28
80-90	15.87
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

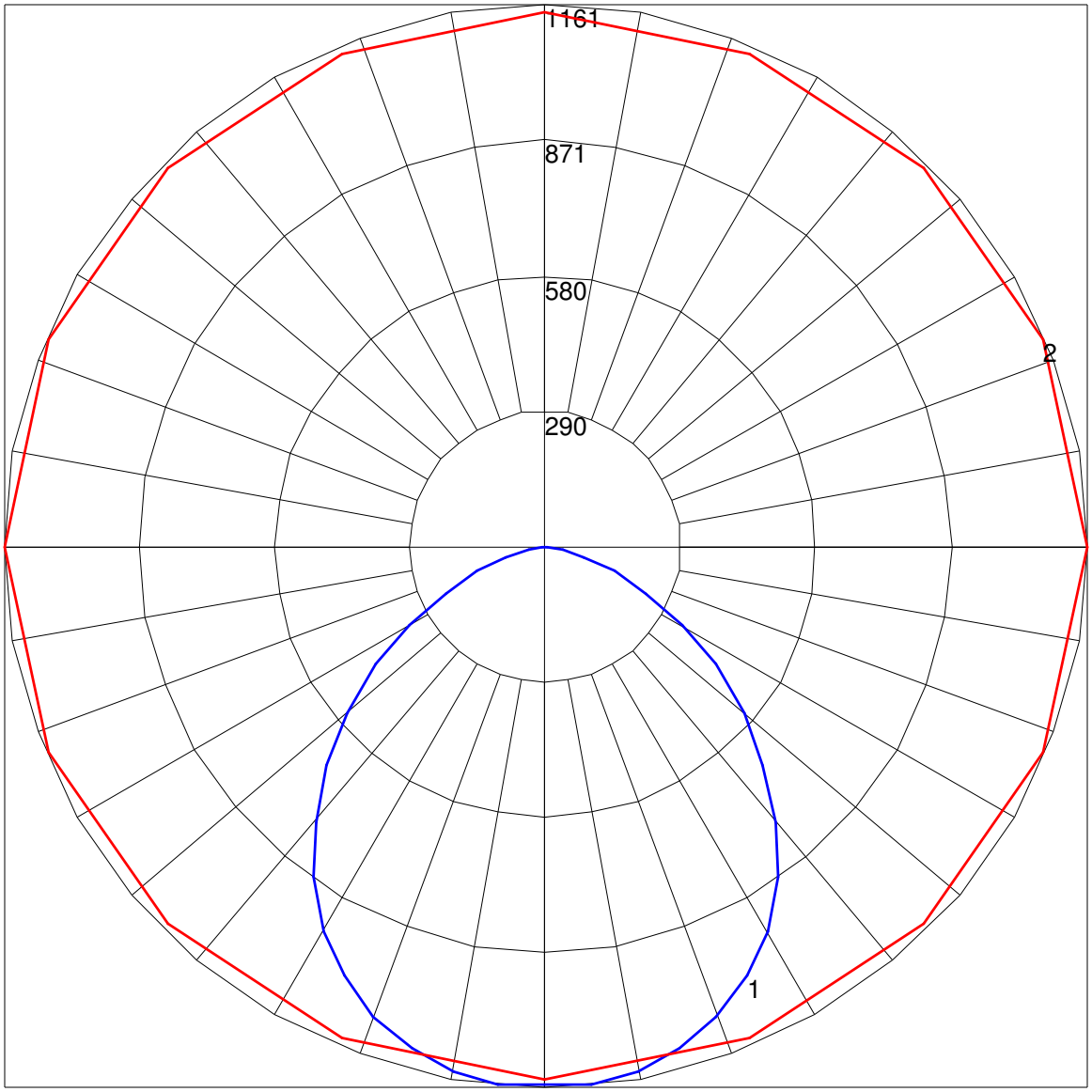
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.2	15.7	14.5	16.0	16.3	13.7	15.2	14.1	15.5	15.8
	3H	15.2	16.6	15.6	16.9	17.3	14.8	16.2	15.2	16.5	16.9
	4H	15.5	16.8	15.9	17.1	17.5	15.1	16.4	15.5	16.8	17.1
	6H	15.6	16.8	16.0	17.2	17.6	15.3	16.5	15.7	16.9	17.2
	8H	15.6	16.8	16.1	17.1	17.5	15.3	16.5	15.8	16.8	17.2
	12H	15.6	16.7	16.0	17.1	17.5	15.3	16.4	15.8	16.8	17.2
4H	2H	14.6	15.8	15.0	16.2	16.6	14.2	15.4	14.6	15.8	16.2
	3H	15.8	16.9	16.2	17.3	17.7	15.5	16.5	15.9	16.9	17.3
	4H	16.2	17.1	16.6	17.5	18.0	15.9	16.8	16.3	17.3	17.7
	6H	16.3	17.2	16.8	17.6	18.1	16.2	17.0	16.6	17.4	17.9
	8H	16.3	17.1	16.8	17.6	18.0	16.2	17.0	16.6	17.4	17.9
	12H	16.3	17.0	16.8	17.5	18.0	16.2	16.9	16.7	17.4	17.8
8H	4H	16.3	17.0	16.7	17.5	17.9	16.0	16.8	16.5	17.2	17.7
	6H	16.5	17.1	17.0	17.6	18.1	16.3	17.0	16.8	17.5	17.9
	8H	16.5	17.1	17.0	17.6	18.1	16.4	17.0	16.9	17.5	18.0
	12H	16.5	17.0	17.0	17.5	18.1	16.4	16.9	17.0	17.4	18.0
12H	4H	16.3	16.9	16.7	17.4	17.9	16.0	16.7	16.5	17.2	17.6
	6H	16.5	17.0	17.0	17.5	18.0	16.3	16.9	16.9	17.4	17.9
	8H	16.5	17.0	17.0	17.5	18.1	16.4	16.9	16.9	17.4	18.0

Maximum UGR = 18.1

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POLAR GRAPH



Maximum Candela = 1160.674 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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