IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L31-850-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-L31-850-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	3306
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
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	3205	3188	3101
55	2650	2597	2452
65	1921	1899	1762
75	1144	1177	1167
85	250	345	355

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1440.283	1440.283	1440.283	1440.283	1440.283
5	1447.429	1438.378	1429.962	1426.627	1426.944
10	1425.833	1415.987	1410.430	1406.777	1407.412
15	1390.739	1381.687	1379.147	1371.366	1375.336
20	1339.924	1332.619	1332.937	1321.980	1326.585
25	1270.530	1266.242	1264.019	1253.062	1259.097
30	1187.321	1185.098	1177.634	1163.660	1170.488
35	1083.627	1085.850	1072.034	1049.803	1062.507
40	960.083	970.722	948.491	923.719	938.963
45	826.694	838.763	822.248	792.235	799.857
50	691.400	685.206	687.271	653.924	652.971
55	554.358	541.019	543.401	512.595	512.912
60	418.587	409.218	406.678	378.729	383.652
65	296.155	290.280	292.662	271.383	271.542
70	193.732	188.015	194.843	186.268	181.981
75	107.982	106.870	111.157	115.127	110.205
80	45.733	44.145	50.021	57.167	51.132
85	7.940	8.893	10.957	16.197	11.275
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	524.98	N.A.	15.90
0-30	1105.43	N.A.	33.40
0-40	1772.98	N.A.	53.60
0-60	2878.92	N.A.	87.10
0-80	3286.35	N.A.	99.40
0-90	3306.15	N.A.	100.00
10-90	3170.01	N.A.	95.90
20-40	1248.01	N.A.	37.70
20-50	1876.1	N.A.	56.70
40-70	1392.06	N.A.	42.10
60-80	407.43	N.A.	12.30
70-80	121.31	N.A.	3.70
80-90	19.80	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	3306.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.14
10-20	388.84
20-30	580.45
30-40	667.55
40-50	628.09
50-60	477.85
60-70	286.12
70-80	121.31
80-90	19.80
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

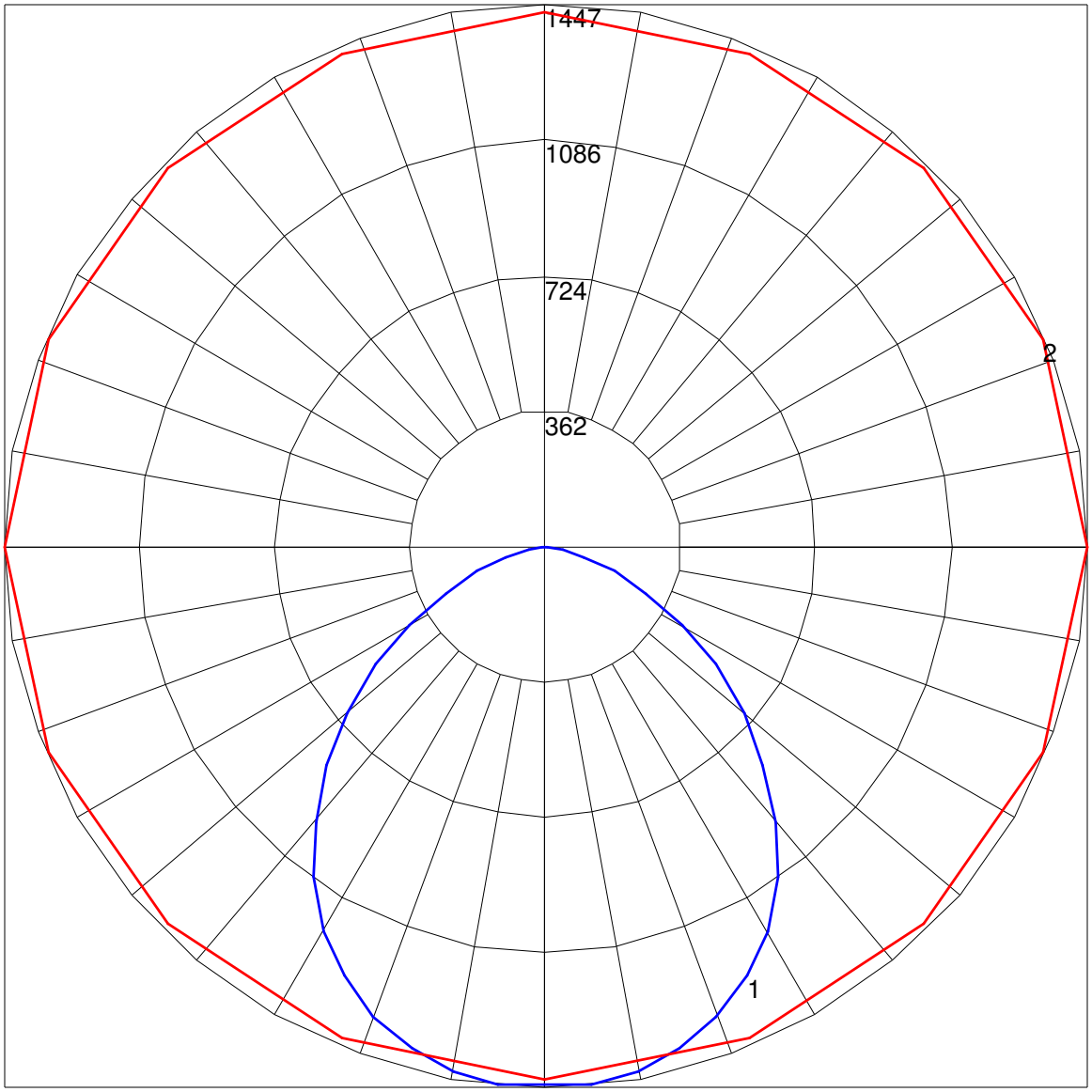
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	15.0	16.5	15.3	16.8	17.1	14.5	16.0	14.9	16.3	16.6
	3H	16.0	17.4	16.4	17.7	18.1	15.6	17.0	16.0	17.3	17.7
	4H	16.3	17.6	16.7	17.9	18.3	15.9	17.2	16.3	17.6	17.9
	6H	16.4	17.6	16.8	18.0	18.4	16.1	17.3	16.5	17.7	18.0
	8H	16.4	17.6	16.9	17.9	18.3	16.1	17.3	16.6	17.6	18.0
	12H	16.4	17.5	16.8	17.9	18.3	16.1	17.2	16.6	17.6	18.0
4H	2H	15.4	16.6	15.8	17.0	17.4	15.0	16.2	15.4	16.6	17.0
	3H	16.6	17.7	17.0	18.1	18.5	16.3	17.3	16.7	17.7	18.1
	4H	17.0	17.9	17.4	18.3	18.8	16.7	17.6	17.1	18.1	18.5
	6H	17.1	18.0	17.6	18.4	18.9	17.0	17.8	17.4	18.2	18.7
	8H	17.1	17.9	17.6	18.3	18.8	17.0	17.7	17.4	18.2	18.7
	12H	17.1	17.8	17.6	18.3	18.8	17.0	17.7	17.5	18.2	18.6
8H	4H	17.1	17.8	17.5	18.3	18.7	16.8	17.6	17.3	18.0	18.5
	6H	17.3	17.9	17.8	18.4	18.9	17.1	17.8	17.6	18.2	18.7
	8H	17.3	17.9	17.8	18.4	18.9	17.2	17.8	17.7	18.3	18.8
	12H	17.3	17.8	17.8	18.3	18.9	17.2	17.7	17.8	18.2	18.8
12H	4H	17.1	17.7	17.5	18.2	18.7	16.8	17.5	17.3	18.0	18.4
	6H	17.3	17.8	17.8	18.3	18.8	17.1	17.7	17.7	18.2	18.7
	8H	17.3	17.8	17.8	18.3	18.9	17.2	17.7	17.7	18.2	18.8

Maximum UGR = 18.9

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POLAR GRAPH



Maximum Candela = 1447.429 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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