IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-827-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-L68-827-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	6598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	6397	6362	6189
55	5288	5184	4893
65	3834	3789	3516
75	2283	2350	2330
85	498	688	708

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2874.318	2874.318	2874.318	2874.318	2874.318
5	2888.579	2870.515	2853.720	2847.065	2847.698
10	2845.480	2825.832	2814.740	2807.452	2808.719
15	2775.444	2757.381	2752.310	2736.782	2744.705
20	2674.035	2659.457	2660.091	2638.225	2647.415
25	2535.548	2526.992	2522.555	2500.689	2512.731
30	2369.490	2365.054	2350.159	2322.272	2335.899
35	2162.552	2166.989	2139.418	2095.052	2120.404
40	1916.001	1937.233	1892.867	1843.430	1873.853
45	1649.802	1673.886	1640.928	1581.034	1596.245
50	1379.800	1367.440	1371.560	1305.010	1303.109
55	1106.311	1079.692	1084.445	1022.966	1023.600
60	835.359	816.661	811.591	755.816	765.640
65	591.026	579.300	584.054	541.589	541.906
70	386.623	375.214	388.841	371.728	363.172
75	215.495	213.276	221.833	229.755	219.931
80	91.268	88.099	99.825	114.085	102.043
85	15.845	17.747	21.866	32.324	22.500
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1047.68	N.A.	15.90
0-30	2206.07	N.A.	33.40
0-40	3538.28	N.A.	53.60
0-60	5745.35	N.A.	87.10
0-80	6558.45	N.A.	99.40
0-90	6597.96	N.A.	100.00
10-90	6326.27	N.A.	95.90
20-40	2490.6	N.A.	37.70
20-50	3744.06	N.A.	56.70
40-70	2778.08	N.A.	42.10
60-80	813.10	N.A.	12.30
70-80	242.10	N.A.	3.70
80-90	39.51	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	6597.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.69
10-20	775.99
20-30	1158.39
30-40	1332.21
40-50	1253.46
50-60	953.62
60-70	571.00
70-80	242.10
80-90	39.51
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

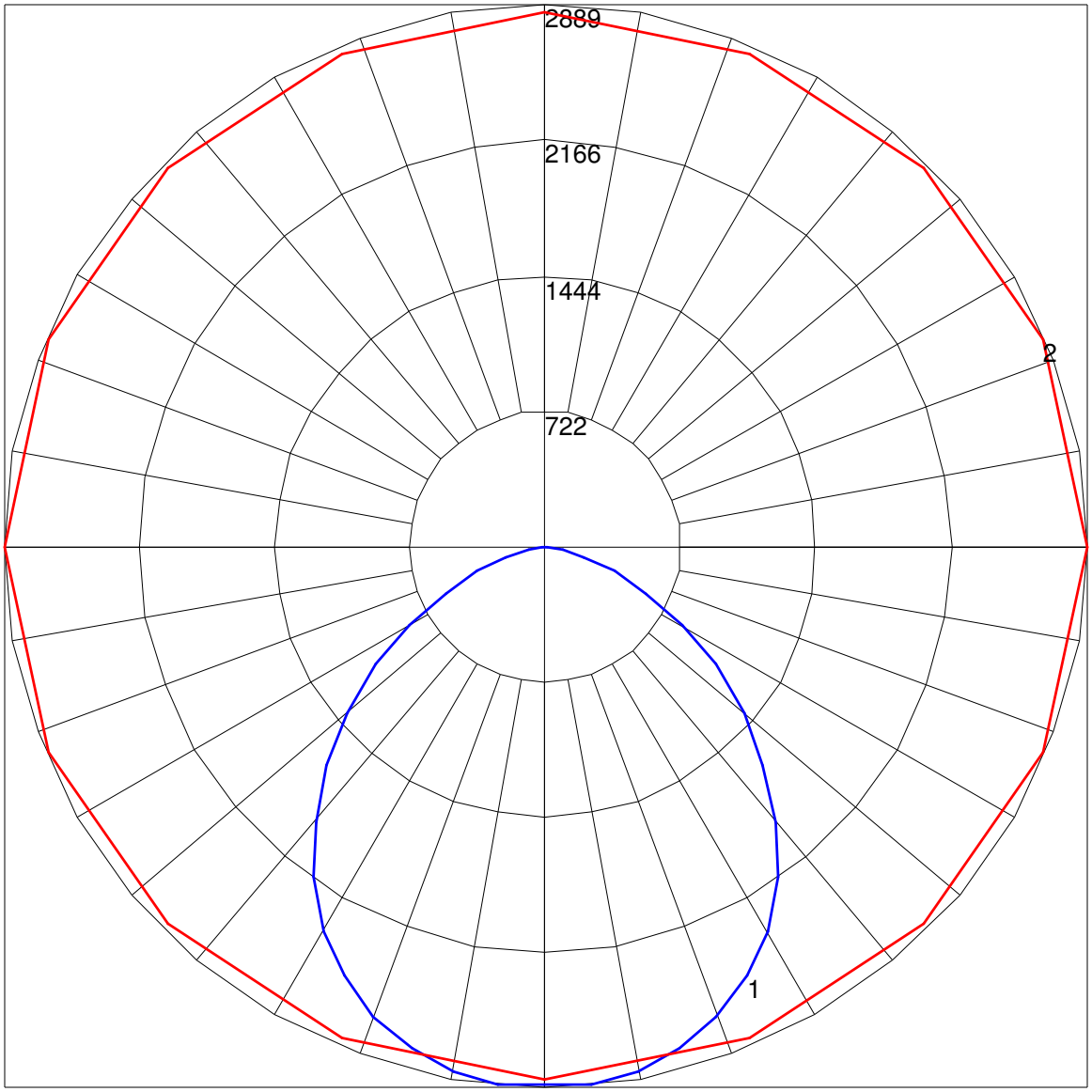
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.4	18.9	17.7	19.2	19.5	16.9	18.4	17.3	18.7	19.0
	3H	18.4	19.8	18.8	20.1	20.5	18.0	19.4	18.4	19.7	20.1
	4H	18.7	20.0	19.1	20.3	20.7	18.3	19.6	18.7	20.0	20.3
	6H	18.8	20.0	19.2	20.4	20.8	18.5	19.7	18.9	20.1	20.4
	8H	18.8	20.0	19.3	20.3	20.7	18.5	19.7	19.0	20.0	20.4
	12H	18.8	19.9	19.2	20.3	20.7	18.5	19.6	19.0	20.0	20.4
4H	2H	17.8	19.0	18.2	19.4	19.8	17.4	18.6	17.8	19.0	19.4
	3H	19.0	20.1	19.4	20.5	20.9	18.7	19.7	19.1	20.1	20.5
	4H	19.4	20.3	19.8	20.7	21.2	19.1	20.0	19.5	20.5	20.9
	6H	19.5	20.4	20.0	20.8	21.3	19.4	20.2	19.8	20.6	21.1
	8H	19.5	20.3	20.0	20.7	21.2	19.4	20.2	19.8	20.6	21.1
	12H	19.5	20.2	20.0	20.7	21.2	19.4	20.1	19.9	20.6	21.0
8H	4H	19.5	20.2	19.9	20.7	21.1	19.2	20.0	19.7	20.4	20.9
	6H	19.7	20.3	20.2	20.8	21.3	19.5	20.2	20.0	20.7	21.1
	8H	19.7	20.3	20.2	20.8	21.3	19.6	20.2	20.1	20.7	21.2
	12H	19.7	20.2	20.2	20.7	21.3	19.6	20.1	20.2	20.6	21.2
12H	4H	19.5	20.1	19.9	20.6	21.1	19.2	19.9	19.7	20.4	20.8
	6H	19.7	20.2	20.2	20.7	21.2	19.5	20.1	20.1	20.6	21.1
	8H	19.7	20.2	20.2	20.7	21.3	19.6	20.1	20.1	20.6	21.2

Maximum UGR = 21.3

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POLAR GRAPH



Maximum Candela = 2888.579 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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