IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-14-L68-950-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-L68-950-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	6122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	5935	5903	5743
55	4907	4810	4540
65	3558	3516	3262
75	2118	2180	2162
85	462	638	657

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2666.894	2666.894	2666.894	2666.894	2666.894
5	2680.125	2663.365	2647.782	2641.607	2642.195
10	2640.137	2621.907	2611.615	2604.853	2606.029
15	2575.155	2558.395	2553.691	2539.283	2546.634
20	2481.064	2467.538	2468.126	2447.838	2456.365
25	2352.571	2344.632	2340.515	2320.227	2331.400
30	2198.497	2194.380	2180.561	2154.686	2167.329
35	2006.492	2010.609	1985.028	1943.863	1967.386
40	1777.733	1797.434	1756.269	1710.399	1738.627
45	1530.744	1553.091	1522.511	1466.939	1481.052
50	1280.227	1268.759	1272.582	1210.834	1209.070
55	1026.475	1001.776	1006.186	949.144	949.732
60	775.075	757.727	753.023	701.273	710.388
65	548.375	537.495	541.906	502.505	502.799
70	358.722	348.137	360.780	344.903	336.964
75	199.944	197.885	205.824	213.175	204.060
80	84.682	81.742	92.621	105.852	94.679
85	14.702	16.466	20.288	29.992	20.876
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	972.07	N.A.	15.90
0-30	2046.87	N.A.	33.40
0-40	3282.94	N.A.	53.60
0-60	5330.74	N.A.	87.10
0-80	6085.16	N.A.	99.40
0-90	6121.82	N.A.	100.00
10-90	5869.73	N.A.	95.90
20-40	2310.87	N.A.	37.70
20-50	3473.87	N.A.	56.70
40-70	2577.6	N.A.	42.10
60-80	754.42	N.A.	12.30
70-80	224.63	N.A.	3.70
80-90	36.66	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	6121.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	252.09
10-20	719.99
20-30	1074.79
30-40	1236.07
40-50	1163.00
50-60	884.80
60-70	529.80
70-80	224.63
80-90	36.66
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

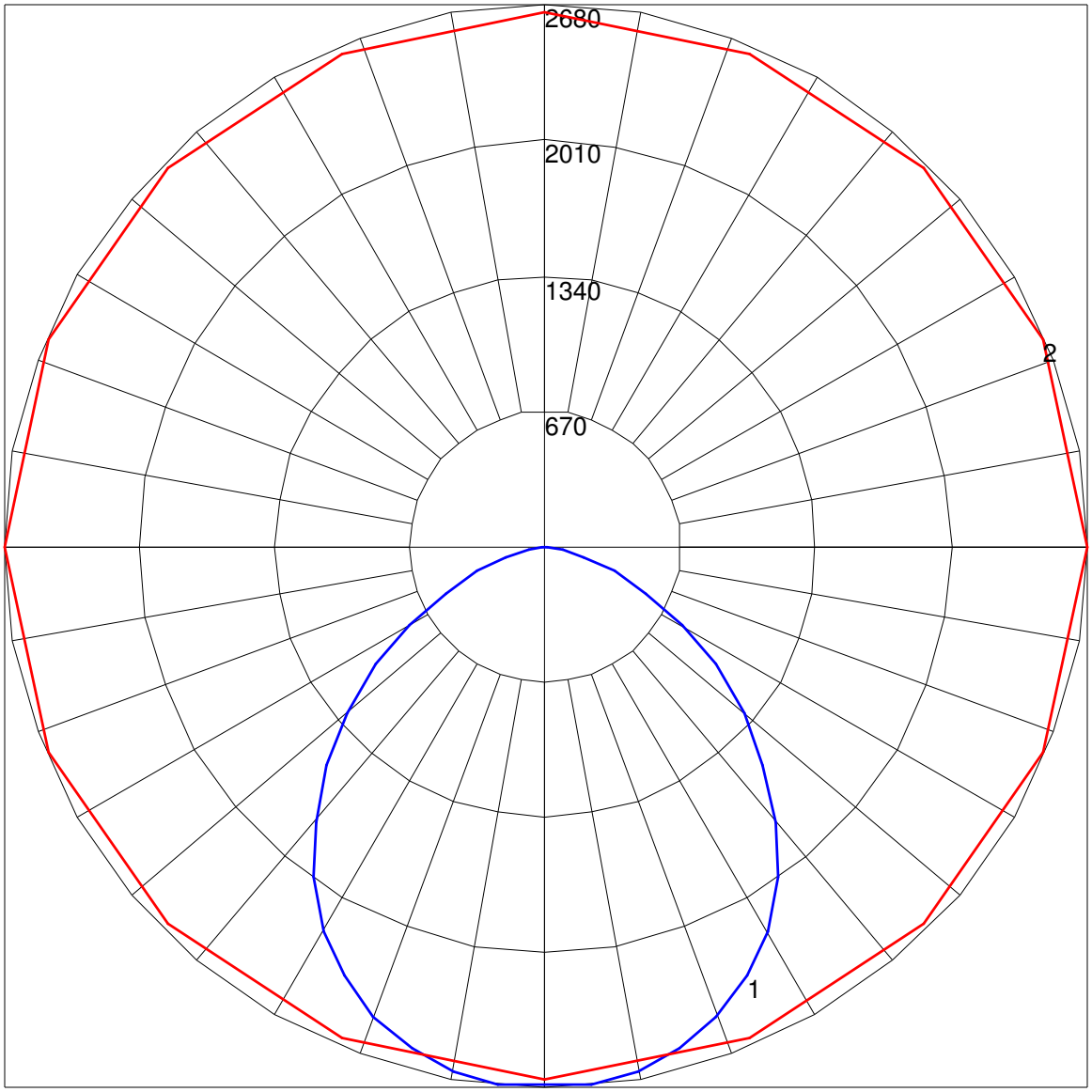
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.1	18.6	17.4	18.9	19.2	16.6	18.1	17.0	18.4	18.7
	3H	18.1	19.5	18.5	19.8	20.2	17.7	19.1	18.1	19.4	19.8
	4H	18.4	19.7	18.8	20.0	20.4	18.0	19.3	18.4	19.7	20.0
	6H	18.5	19.7	18.9	20.1	20.5	18.2	19.4	18.6	19.8	20.1
	8H	18.5	19.7	19.0	20.0	20.4	18.2	19.4	18.7	19.7	20.1
	12H	18.5	19.6	18.9	20.0	20.4	18.2	19.3	18.7	19.7	20.1
4H	2H	17.5	18.7	17.9	19.1	19.5	17.1	18.3	17.5	18.7	19.1
	3H	18.7	19.8	19.1	20.2	20.6	18.4	19.4	18.8	19.8	20.2
	4H	19.1	20.0	19.5	20.4	20.9	18.8	19.7	19.2	20.2	20.6
	6H	19.2	20.1	19.7	20.5	21.0	19.1	19.9	19.5	20.3	20.8
	8H	19.2	20.0	19.7	20.5	20.9	19.1	19.9	19.5	20.3	20.8
	12H	19.2	19.9	19.7	20.4	20.9	19.1	19.8	19.6	20.3	20.7
8H	4H	19.2	19.9	19.6	20.4	20.8	18.9	19.7	19.4	20.1	20.6
	6H	19.4	20.0	19.9	20.5	21.0	19.2	19.9	19.7	20.4	20.8
	8H	19.4	20.0	19.9	20.5	21.0	19.3	19.9	19.8	20.4	20.9
	12H	19.4	19.9	19.9	20.4	21.0	19.3	19.8	19.9	20.3	20.9
12H	4H	19.2	19.8	19.6	20.3	20.8	18.9	19.6	19.4	20.1	20.5
	6H	19.4	19.9	19.9	20.4	20.9	19.2	19.8	19.8	20.3	20.8
	8H	19.4	19.9	19.9	20.4	21.0	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 21.0

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POLAR GRAPH



Maximum Candela = 2680.125 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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