IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-22-L65-840-CS-SAF125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19834.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 3-42 LED 22" ARRAYS 2x2' RECESSED WHITE REFL LUMINAIRE
[MORE] FROSTED ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-22-L65-840-CS-SAF125-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	6750
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	58.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6744	6765	6771
55	5904	5747	5857
65	4576	4462	4606
75	2928	3034	2806
85	579	1097	892

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2873.118	2873.118	2873.118	2873.118	2873.118
5	2884.647	2866.272	2851.499	2844.653	2845.374
10	2834.925	2819.431	2806.820	2801.055	2793.489
15	2751.333	2736.920	2732.236	2721.787	2717.103
20	2632.790	2626.305	2625.584	2597.480	2601.804
25	2482.180	2478.938	2473.173	2456.959	2463.444
30	2308.511	2301.304	2285.811	2285.811	2291.936
35	2098.810	2092.685	2086.199	2079.353	2081.515
40	1870.733	1870.733	1873.255	1862.446	1862.446
45	1634.730	1639.053	1639.774	1625.001	1641.215
50	1397.645	1385.755	1389.718	1363.776	1398.726
55	1160.921	1137.141	1129.934	1131.736	1151.553
60	906.181	896.813	878.798	904.380	911.226
65	662.972	672.340	646.397	665.854	667.295
70	452.190	450.388	445.344	441.020	433.814
75	259.784	249.695	269.152	255.100	248.975
80	103.769	102.689	123.587	126.469	116.380
85	17.295	22.339	32.788	35.310	26.663
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1040.71	N.A.	15.40
0-30	2177.11	N.A.	32.30
0-40	3482.08	N.A.	51.60
0-60	5760.23	N.A.	85.30
0-80	6703.01	N.A.	99.30
0-90	6749.78	N.A.	100.00
10-90	6478.54	N.A.	96.00
20-40	2441.37	N.A.	36.20
20-50	3700.3	N.A.	54.80
40-70	2937.68	N.A.	43.50
60-80	942.78	N.A.	14.00
70-80	283.24	N.A.	4.20
80-90	46.77	N.A.	0.70
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	6749.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	271.24
10-20	769.47
20-30	1136.4
30-40	1304.96
40-50	1258.94
50-60	1019.21
60-70	659.54
70-80	283.24
80-90	46.77
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	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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UGR TABLE - CORRECTED

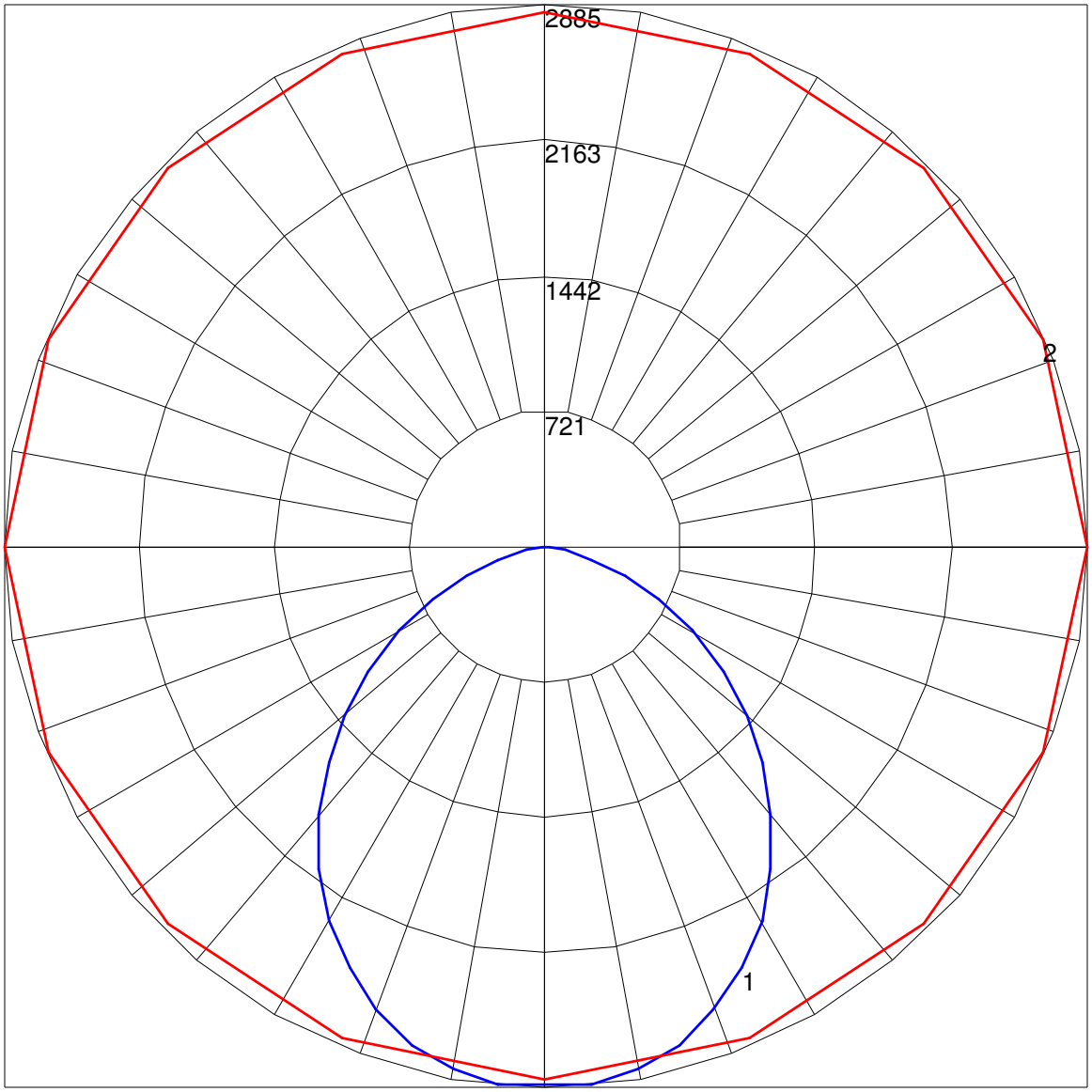
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.9	19.4	18.2	19.7	20.0	17.9	19.4	18.2	19.7	20.1
	3H	19.1	20.5	19.5	20.9	21.2	19.1	20.5	19.5	20.8	21.2
	4H	19.5	20.8	19.9	21.1	21.5	19.4	20.7	19.8	21.1	21.4
	6H	19.6	20.8	20.0	21.2	21.6	19.6	20.8	20.0	21.1	21.5
	8H	19.6	20.8	20.0	21.1	21.5	19.6	20.7	20.0	21.1	21.5
	12H	19.6	20.7	20.0	21.1	21.5	19.6	20.7	20.0	21.1	21.5
4H	2H	18.3	19.6	18.7	20.0	20.3	18.3	19.6	18.7	20.0	20.3
	3H	19.8	20.8	20.2	21.2	21.6	19.7	20.8	20.1	21.2	21.6
	4H	20.2	21.1	20.6	21.6	22.0	20.1	21.1	20.6	21.5	22.0
	6H	20.4	21.2	20.8	21.6	22.1	20.4	21.2	20.8	21.6	22.1
	8H	20.4	21.2	20.8	21.6	22.1	20.4	21.2	20.9	21.6	22.1
	12H	20.4	21.1	20.8	21.5	22.0	20.4	21.1	20.9	21.6	22.1
8H	4H	20.3	21.1	20.8	21.5	22.0	20.3	21.1	20.7	21.5	22.0
	6H	20.6	21.2	21.0	21.7	22.2	20.6	21.2	21.1	21.7	22.2
	8H	20.6	21.2	21.1	21.7	22.2	20.6	21.2	21.2	21.7	22.2
	12H	20.6	21.1	21.1	21.6	22.1	20.7	21.2	21.2	21.7	22.2
12H	4H	20.3	21.0	20.8	21.5	21.9	20.3	21.0	20.7	21.4	21.9
	6H	20.6	21.1	21.1	21.6	22.1	20.6	21.2	21.1	21.6	22.2
	8H	20.6	21.1	21.1	21.6	22.2	20.7	21.2	21.2	21.7	22.2

Maximum UGR = 22.2

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POLAR GRAPH



Maximum Candela = 2884.647 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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