

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L79-835-SAF12125-(L65)-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

[ISSUE DATE] 08-22-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE

[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR

[LUMCAT] MCTG-14-L79-835-SAF12125-(L65)-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	6554
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	57.74
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	6354	6320	6148
55	5253	5149	4860
65	3809	3764	3492
75	2268	2334	2314
85	495	683	703

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2855.177	2855.177	2855.177	2855.177	2855.177
5	2869.343	2851.399	2834.715	2828.105	2828.734
10	2826.531	2807.014	2795.996	2788.756	2790.015
15	2756.961	2739.018	2733.982	2718.557	2726.426
20	2656.228	2641.747	2642.377	2620.656	2629.785
25	2518.663	2510.163	2505.756	2484.035	2495.998
30	2353.711	2349.304	2334.509	2306.807	2320.343
35	2148.151	2152.558	2125.171	2081.100	2106.283
40	1903.241	1924.333	1880.262	1831.154	1861.374
45	1638.815	1662.739	1630.001	1570.505	1585.615
50	1370.611	1358.334	1362.426	1296.320	1294.431
55	1098.944	1072.501	1077.223	1016.153	1016.783
60	829.796	811.223	806.186	750.782	760.541
65	587.090	575.443	580.164	537.982	538.297
70	384.048	372.716	386.252	369.253	360.753
75	214.060	211.856	220.355	228.225	218.467
80	90.661	87.513	99.160	113.326	101.364
85	15.740	17.628	21.721	32.109	22.350
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1040.7	N.A.	15.90
0-30	2191.38	N.A.	33.40
0-40	3514.72	N.A.	53.60
0-60	5707.09	N.A.	87.10
0-80	6514.78	N.A.	99.40
0-90	6554.02	N.A.	100.00
10-90	6284.14	N.A.	95.90
20-40	2474.01	N.A.	37.70
20-50	3719.12	N.A.	56.70
40-70	2759.58	N.A.	42.10
60-80	807.68	N.A.	12.30
70-80	240.48	N.A.	3.70
80-90	39.24	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	6554.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	269.88
10-20	770.82
20-30	1150.67
30-40	1323.34
40-50	1245.11
50-60	947.27
60-70	567.20
70-80	240.48
80-90	39.24
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

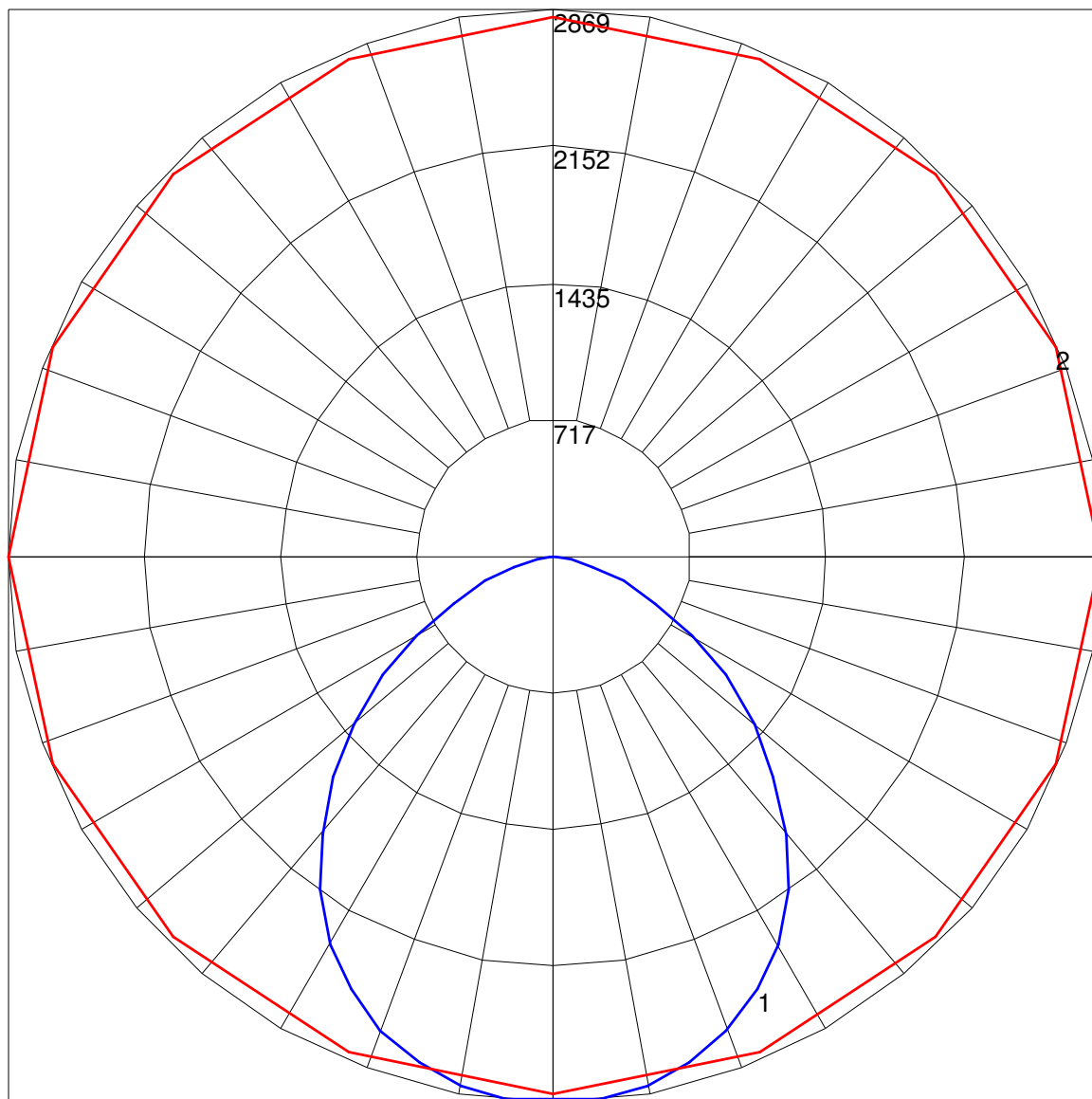
X=2H	Y=2H	17.3	18.8	17.6	19.1	19.4	16.8	18.3	17.2	18.6	18.9
	3H	18.3	19.7	18.7	20.0	20.4	17.9	19.3	18.3	19.6	20.0
	4H	18.6	19.9	19.0	20.2	20.6	18.2	19.5	18.6	19.9	20.2
	6H	18.7	19.9	19.1	20.3	20.7	18.4	19.6	18.8	20.0	20.3
	8H	18.7	19.9	19.2	20.2	20.6	18.4	19.6	18.9	19.9	20.3
	12H	18.7	19.8	19.1	20.2	20.6	18.4	19.5	18.9	19.9	20.3

UGR Viewed Endwise

4H	2H	17.7	18.9	18.1	19.3	19.7	17.3	18.5	17.7	18.9	19.3
	3H	18.9	20.0	19.3	20.4	20.8	18.6	19.6	19.0	20.0	20.4
	4H	19.3	20.2	19.7	20.6	21.1	19.0	19.9	19.4	20.4	20.8
	6H	19.4	20.3	19.9	20.7	21.2	19.3	20.1	19.7	20.5	21.0
	8H	19.4	20.2	19.9	20.6	21.1	19.3	20.1	19.7	20.5	21.0
	12H	19.4	20.1	19.9	20.6	21.1	19.3	20.0	19.8	20.5	20.9
8H	4H	19.4	20.1	19.8	20.6	21.0	19.1	19.9	19.6	20.3	20.8
	6H	19.6	20.2	20.1	20.7	21.2	19.4	20.1	19.9	20.6	21.0
	8H	19.6	20.2	20.1	20.7	21.2	19.5	20.1	20.0	20.6	21.1
	12H	19.6	20.1	20.1	20.6	21.2	19.5	20.0	20.1	20.5	21.1
12H	4H	19.4	20.0	19.8	20.5	21.0	19.1	19.8	19.6	20.3	20.7
	6H	19.6	20.1	20.1	20.6	21.1	19.4	20.0	20.0	20.5	21.0
	8H	19.6	20.1	20.1	20.6	21.2	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 2869.343 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.)