

IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L60-835-SAF12125-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] 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-24-L60-835-SAF12125-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	6106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	46.56
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)	3.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4131	4109	3997
55	3415	3348	3160
65	2476	2447	2271
75	1474	1518	1505
85	322	444	457

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2660.011	2660.011	2660.011	2660.011	2660.011
5	2673.208	2656.491	2640.948	2634.789	2635.376
10	2633.323	2615.140	2604.875	2598.130	2599.303
15	2568.509	2551.792	2547.100	2532.729	2540.061
20	2474.660	2461.170	2461.756	2441.520	2450.025
25	2346.499	2338.581	2334.475	2314.239	2325.383
30	2192.823	2188.717	2174.933	2149.124	2161.735
35	2001.313	2005.419	1979.904	1938.846	1962.308
40	1773.145	1792.794	1751.736	1705.985	1734.139
45	1526.793	1549.082	1518.582	1463.153	1477.230
50	1276.922	1265.485	1269.297	1207.709	1205.950
55	1023.826	999.190	1003.589	946.694	947.281
60	773.075	755.772	751.079	699.463	708.554
65	546.959	536.108	540.507	501.208	501.501
70	357.796	347.238	359.849	344.012	336.094
75	199.427	197.375	205.293	212.625	203.533
80	84.463	81.531	92.382	105.579	94.435
85	14.664	16.423	20.236	29.914	20.823
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	969.56	N.A.	15.90
0-30	2041.58	N.A.	33.40
0-40	3274.47	N.A.	53.60
0-60	5316.98	N.A.	87.10
0-80	6069.46	N.A.	99.40
0-90	6106.02	N.A.	100.00
10-90	5854.58	N.A.	95.90
20-40	2304.9	N.A.	37.70
20-50	3464.9	N.A.	56.70
40-70	2570.95	N.A.	42.10
60-80	752.47	N.A.	12.30
70-80	224.05	N.A.	3.70
80-90	36.56	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	6106.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.44
10-20	718.13
20-30	1072.02
30-40	1232.88
40-50	1160.00
50-60	882.52
60-70	528.43
70-80	224.05
80-90	36.56
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	15.8	17.3	16.2	17.6	18.0	UGR Viewed Endwise	15.3	16.9	15.7	17.2	17.5
	3H	16.9	18.3	17.3	18.6	18.9		16.5	17.8	16.8	18.1	18.5
	4H	17.2	18.4	17.6	18.8	19.2		16.8	18.1	17.2	18.4	18.8
	6H	17.3	18.5	17.7	18.8	19.2		17.0	18.1	17.4	18.5	18.9
	8H	17.3	18.4	17.7	18.8	19.2		17.0	18.1	17.4	18.5	18.9
	12H	17.3	18.3	17.7	18.7	19.1		17.0	18.0	17.4	18.4	18.9

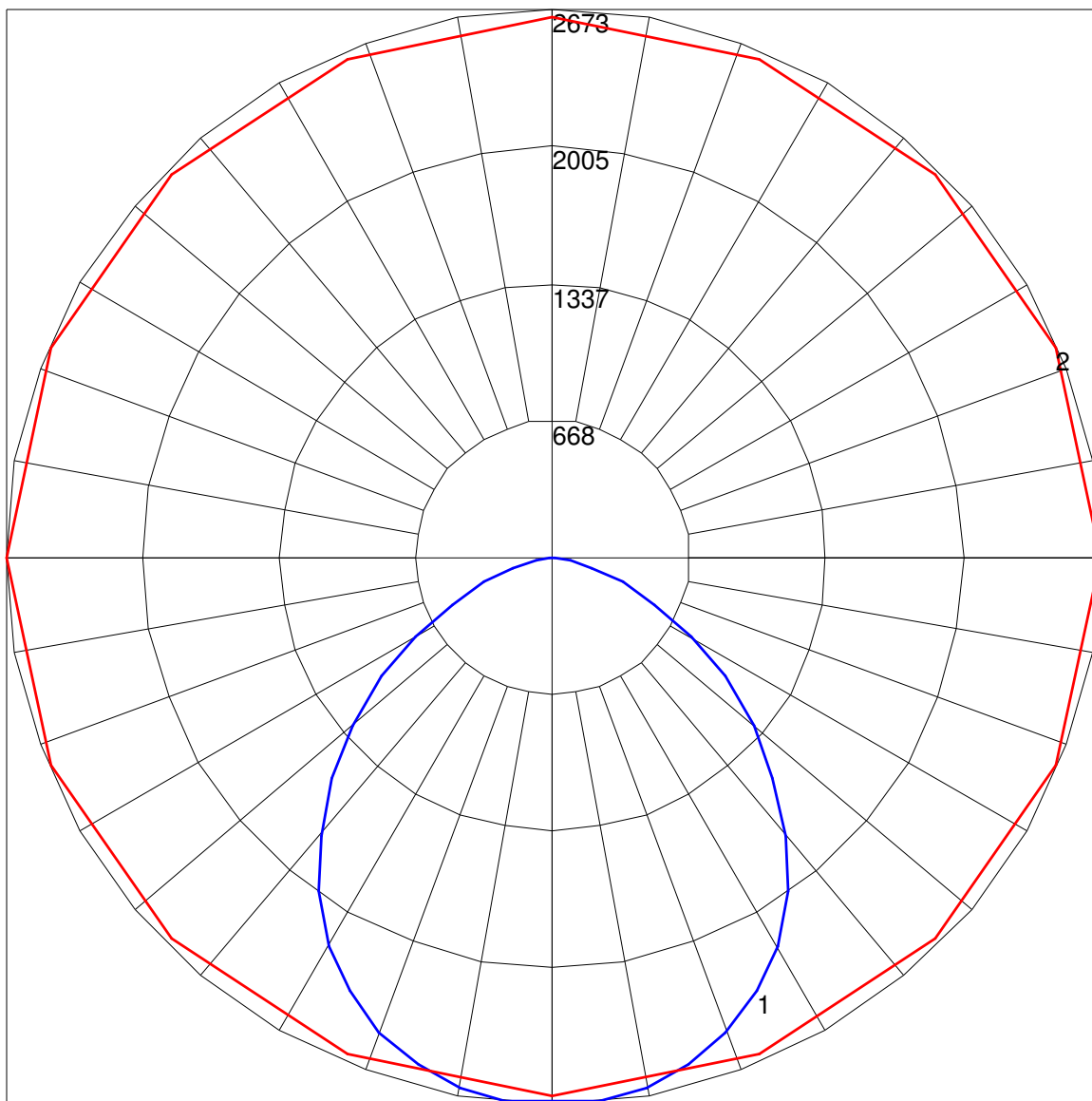
4H	2H	16.2	17.5	16.6	17.8	18.2	15.8	17.1	16.2	17.4	17.8
	3H	17.5	18.5	17.9	18.9	19.3	17.1	18.2	17.5	18.6	19.0
	4H	17.8	18.8	18.3	19.2	19.6	17.6	18.5	18.0	18.9	19.3
	6H	18.0	18.8	18.5	19.2	19.7	17.8	18.6	18.3	19.1	19.5
	8H	18.0	18.8	18.4	19.2	19.7	17.8	18.6	18.3	19.0	19.5
	12H	18.0	18.7	18.5	19.1	19.6	17.8	18.5	18.3	19.0	19.5

8H	4H	17.9	18.7	18.4	19.1	19.6	17.7	18.4	18.1	18.9	19.3
	6H	18.1	18.8	18.6	19.2	19.7	18.0	18.6	18.5	19.1	19.6
	8H	18.2	18.7	18.7	19.2	19.7	18.1	18.6	18.6	19.1	19.6
	12H	18.2	18.6	18.7	19.1	19.7	18.1	18.6	18.6	19.1	19.6

12H	4H	17.9	18.6	18.4	19.1	19.5	17.7	18.3	18.1	18.8	19.3
	6H	18.1	18.7	18.7	19.2	19.7	18.0	18.5	18.5	19.0	19.5
	8H	18.2	18.7	18.7	19.2	19.7	18.1	18.6	18.6	19.1	19.6

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 2673.208 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.)