



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-14-L6-RED-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

[ISSUE DATE] 17-FEB-2020

[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] MCTG-14-L6-RED-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	603
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	14
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	585	581	566
55	483	474	447
65	350	346	321
75	209	215	213
85	46	63	65

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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	262.690	262.690	262.690	262.690	262.690
5	263.993	262.342	260.807	260.199	260.257
10	260.054	258.259	257.245	256.579	256.695
15	253.654	252.003	251.539	250.120	250.844
20	244.386	243.053	243.111	241.113	241.953
25	231.729	230.947	230.542	228.543	229.644
30	216.553	216.147	214.786	212.237	213.483
35	197.640	198.046	195.526	191.471	193.788
40	175.107	177.048	172.993	168.475	171.255
45	150.779	152.980	149.968	144.494	145.884
50	126.103	124.973	125.350	119.268	119.094
55	101.108	98.675	99.110	93.491	93.549
60	76.345	74.636	74.173	69.076	69.973
65	54.015	52.943	53.378	49.497	49.526
70	35.334	34.292	35.537	33.973	33.191
75	19.695	19.492	20.274	20.998	20.100
80	8.341	8.052	9.123	10.427	9.326
85	1.448	1.622	1.998	2.954	2.056
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	95.75	N.A.	15.90
0-30	201.62	N.A.	33.40
0-40	323.37	N.A.	53.60
0-60	525.08	N.A.	87.10
0-80	599.39	N.A.	99.40
0-90	603.00	N.A.	100.00
10-90	578.17	N.A.	95.90
20-40	227.62	N.A.	37.70
20-50	342.18	N.A.	56.70
40-70	253.89	N.A.	42.10
60-80	74.31	N.A.	12.30
70-80	22.13	N.A.	3.70
80-90	3.61	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	603.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	24.83
10-20	70.92
20-30	105.87
30-40	121.75
40-50	114.56
50-60	87.15
60-70	52.19
70-80	22.13
80-90	3.61
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	18	18	18	18	17	17	17	17	17	17	17	16	16	16	15	15	15	15
1	17	16	15	15	16	16	15	15	15	15	14	14	14	14	14	14	13	13
2	15	14	13	12	15	14	13	12	13	13	12	13	12	12	12	12	11	11
3	14	13	11	11	14	12	11	10	12	11	10	11	11	10	11	10	10	10
4	13	11	10	9	13	11	10	9	11	10	9	10	9	9	10	9	9	8
5	12	10	9	8	12	10	9	8	10	9	8	9	8	8	9	8	8	7
6	11	9	8	7	11	9	8	7	9	8	7	9	8	7	8	7	7	7
7	10	8	7	6	10	8	7	6	8	7	6	8	7	6	8	7	6	6
8	10	8	6	6	9	8	6	6	7	6	6	7	6	6	7	6	5	5
9	9	7	6	5	9	7	6	5	7	6	5	7	6	5	6	6	5	5
10	8	7	5	5	8	6	5	5	6	5	5	6	5	5	6	5	5	4

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UGR TABLE - CORRECTED

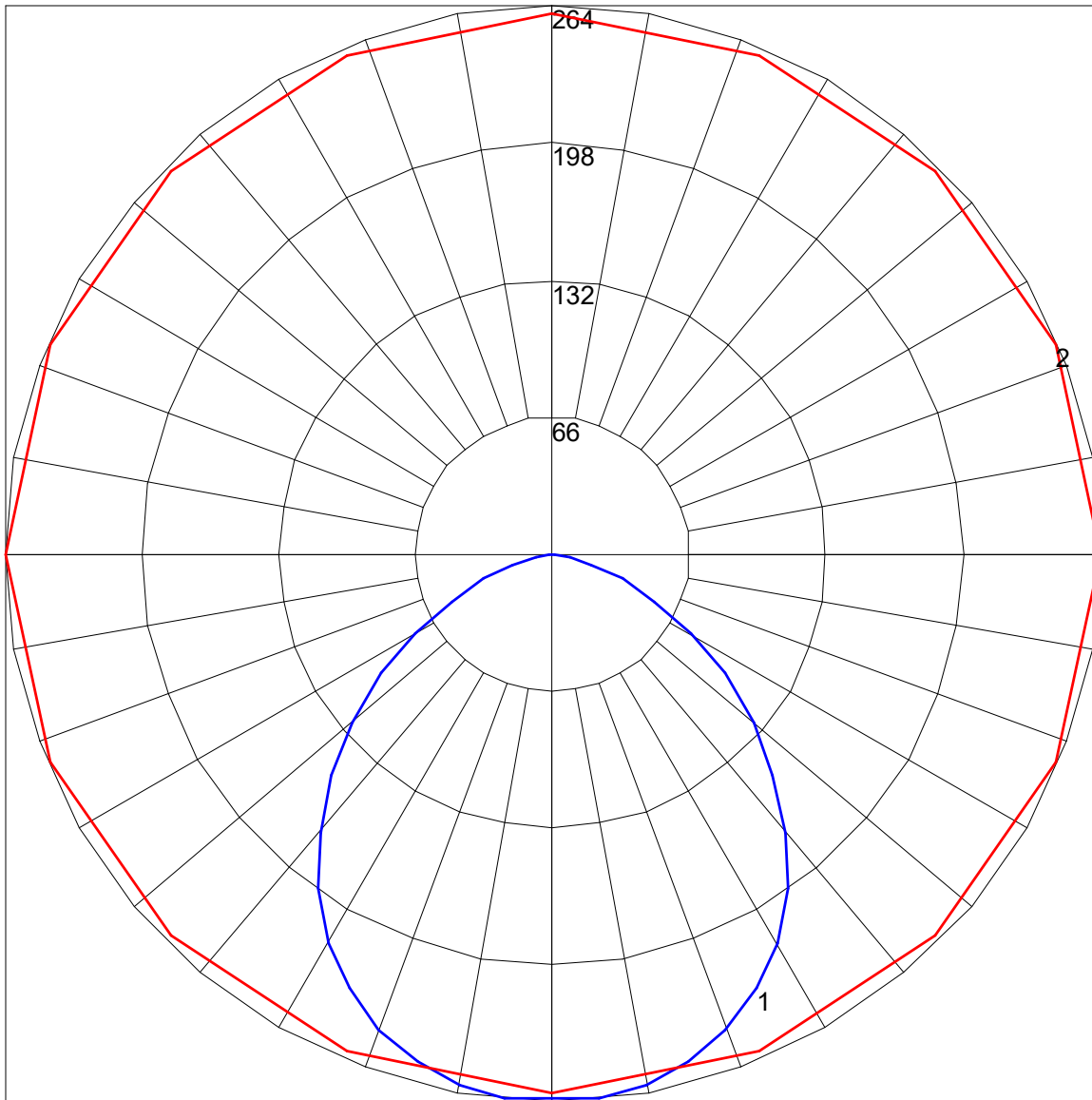
Reflectances

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	15.6	17.1	15.9	17.4	17.7	15.1	16.6	15.5	16.9	17.2
	3H	16.6	18.0	17.0	18.3	18.7	16.2	17.6	16.6	17.9	18.3
	4H	16.9	18.2	17.3	18.5	18.9	16.5	17.8	16.9	18.2	18.5
	6H	17.0	18.2	17.4	18.6	19.0	16.7	17.9	17.1	18.3	18.6
	8H	17.0	18.2	17.5	18.5	18.9	16.7	17.9	17.2	18.2	18.6
	12H	17.0	18.1	17.4	18.5	18.9	16.7	17.8	17.2	18.2	18.6
4H	2H	16.0	17.2	16.4	17.6	18.0	15.6	16.8	16.0	17.2	17.6
	3H	17.2	18.3	17.6	18.7	19.1	16.9	17.9	17.3	18.3	18.7
	4H	17.6	18.5	18.0	18.9	19.4	17.3	18.2	17.7	18.7	19.1
	6H	17.7	18.6	18.2	19.0	19.5	17.6	18.4	18.0	18.8	19.3
	8H	17.7	18.5	18.2	18.9	19.4	17.6	18.4	18.0	18.8	19.3
	12H	17.7	18.4	18.2	18.9	19.4	17.6	18.3	18.1	18.8	19.2
8H	4H	17.7	18.4	18.1	18.9	19.3	17.4	18.2	17.9	18.6	19.1
	6H	17.9	18.5	18.4	19.0	19.5	17.7	18.4	18.2	18.9	19.3
	8H	17.9	18.5	18.4	19.0	19.5	17.8	18.4	18.3	18.9	19.4
	12H	17.9	18.4	18.4	18.9	19.5	17.8	18.3	18.4	18.8	19.4
12H	4H	17.7	18.3	18.1	18.8	19.3	17.4	18.1	17.9	18.6	19.0
	6H	17.9	18.4	18.4	18.9	19.4	17.7	18.3	18.3	18.8	19.3
	8H	17.9	18.4	18.4	18.9	19.5	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 263.993 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.)