



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MCTG-24-L28-RED-L74-835-SAF125 WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20883.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 24-FEB-2020

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

[LUMINAIRE] 4-56 LED 35K & 2/56 LED RED 22"ARRAY 2X4' RECESSED TROFFER

[MORE] WHITE REFL w/.15"FROST ACRYLIC LENS/.085"CLEAR ACRYLIC LENS

[LUMCAT] MCTG-24-L28/RED-L74/835-SAF125-DRV-UNV WHITE ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	62.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.56 ft
Luminous Width (90-270)	1.56 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4540	4395	4344
55	3885	3789	3674
65	3137	2943	2799
75	1882	1832	1723
85	397	447	385

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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	2900.104	2900.104	2900.104	2900.104	2900.104
5	2910.753	2894.498	2878.244	2868.715	2868.715
10	2860.307	2845.734	2826.116	2820.511	2821.632
15	2775.109	2761.656	2742.038	2736.433	2732.510
20	2657.961	2643.948	2629.935	2617.044	2618.165
25	2508.864	2498.214	2479.718	2466.265	2468.507
30	2331.742	2320.531	2303.155	2284.658	2282.416
35	2129.956	2112.580	2092.962	2077.828	2065.497
40	1901.827	1895.101	1867.075	1848.017	1834.565
45	1662.487	1642.869	1609.238	1603.633	1590.741
50	1418.102	1398.484	1366.535	1352.522	1342.433
55	1154.100	1154.100	1125.514	1095.246	1091.322
60	889.537	897.945	869.919	851.422	857.588
65	686.631	661.968	644.032	637.866	612.643
70	457.380	436.081	439.444	425.431	407.494
75	252.232	248.869	245.505	238.219	230.932
80	98.651	98.651	102.574	98.651	95.288
85	17.936	21.300	20.179	16.815	17.376
90	0.000	0.561	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1048.17	N.A.	15.60
0-30	2190.5	N.A.	32.70
0-40	3499.81	N.A.	52.20
0-60	5756.31	N.A.	85.80
0-80	6668.75	N.A.	99.40
0-90	6706.11	N.A.	100.00
10-90	6432.49	N.A.	95.90
20-40	2451.64	N.A.	36.60
20-50	3703.07	N.A.	55.20
40-70	2900.3	N.A.	43.20
60-80	912.44	N.A.	13.60
70-80	268.64	N.A.	4.00
80-90	37.35	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	6706.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.62
10-20	774.56
20-30	1142.33
30-40	1309.31
40-50	1251.43
50-60	1005.07
60-70	643.80
70-80	268.64
80-90	37.35
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	66	66	66	66	64	64	64	64	61	61	61	59	59	59	56	56	56	55
1	61	59	56	55	59	57	55	54	55	53	52	53	52	50	51	50	49	48
2	56	52	48	45	54	51	48	45	49	46	44	47	45	43	45	44	42	41
3	51	46	42	38	50	45	41	38	43	40	37	42	39	37	41	38	36	35
4	47	41	37	33	46	40	36	33	39	35	32	38	35	32	37	34	32	30
5	44	37	32	29	42	36	32	29	35	31	28	34	31	28	33	30	28	27
6	40	33	29	25	39	33	28	25	32	28	25	31	27	25	30	27	25	24
7	38	30	26	23	37	30	26	22	29	25	22	28	25	22	28	24	22	21
8	35	28	23	20	34	27	23	20	27	23	20	26	23	20	25	22	20	19
9	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17
10	31	24	19	17	30	23	19	17	23	19	17	22	19	17	22	19	16	15

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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	18.6	20.2	19.0	20.5	20.8	18.3	19.8	18.6	20.1	20.4
	3H	19.9	21.3	20.3	21.6	21.9	19.5	20.9	19.8	21.2	21.5
	4H	20.2	21.5	20.6	21.8	22.2	19.8	21.1	20.2	21.4	21.8
	6H	20.3	21.5	20.7	21.9	22.3	19.9	21.1	20.3	21.5	21.9
	8H	20.3	21.5	20.8	21.8	22.3	19.9	21.0	20.3	21.4	21.8
	12H	20.3	21.4	20.7	21.8	22.2	19.9	21.0	20.3	21.4	21.8

UGR Viewed Endwise

4H	2H	19.0	20.3	19.4	20.7	21.1	18.8	20.1	19.2	20.4	20.8
	3H	20.5	21.5	20.9	21.9	22.3	20.1	21.2	20.6	21.6	22.0
	4H	20.9	21.8	21.3	22.2	22.7	20.5	21.5	21.0	21.9	22.3
	6H	21.1	21.9	21.5	22.3	22.8	20.7	21.5	21.2	22.0	22.4
	8H	21.1	21.8	21.5	22.3	22.8	20.7	21.5	21.2	21.9	22.4
	12H	21.1	21.7	21.5	22.2	22.7	20.7	21.4	21.2	21.9	22.4

8H	4H	21.0	21.8	21.5	22.2	22.7	20.7	21.4	21.1	21.9	22.3
	6H	21.2	21.8	21.7	22.3	22.8	20.9	21.5	21.4	22.0	22.5
	8H	21.2	21.8	21.7	22.3	22.8	20.9	21.5	21.4	22.0	22.5
	12H	21.2	21.7	21.7	22.2	22.8	20.9	21.4	21.4	21.9	22.5

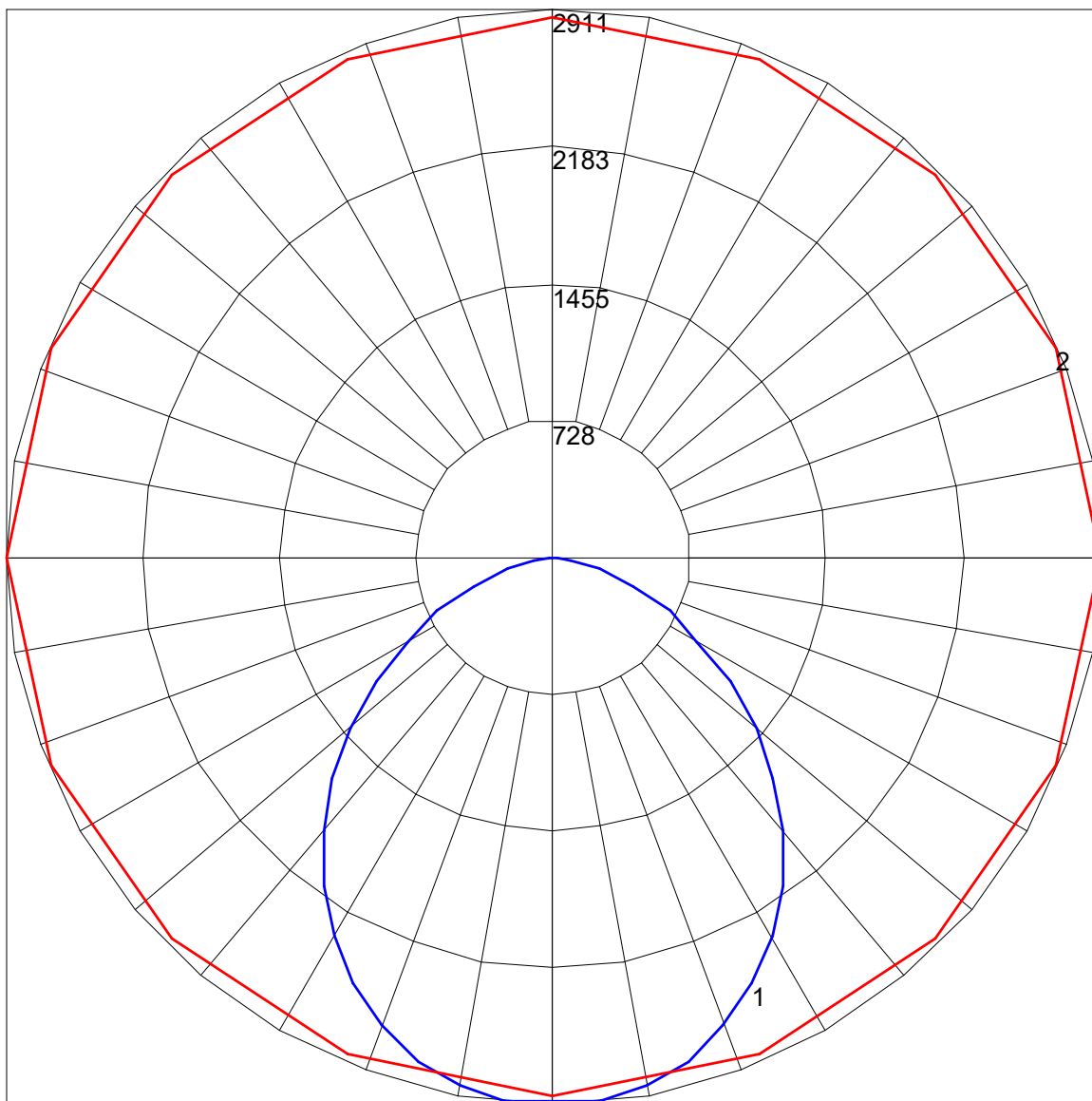
12H	4H	21.0	21.7	21.5	22.1	22.6	20.7	21.3	21.1	21.8	22.3
	6H	21.2	21.8	21.7	22.2	22.8	20.9	21.4	21.4	21.9	22.4
	8H	21.2	21.7	21.8	22.2	22.8	20.9	21.4	21.4	21.9	22.5

Maximum UGR = 22.8

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POLAR GRAPH



Maximum Candela = 2910.753 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.)