



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RSTT8 432.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA91  
 [TEST] Test No. 5307.IES  
 [MANUFAC] ARCHIPELAGO LIGHTING, INC.  
 [LUMCAT] RSTT8 432  
 [LUMINAIRE] GRID TROFFER, 2'X4' 4 LP T8 #P12 LENS  
 [LAMP] FOUR 32-WATT T8 LINEAR FLUORESCENT.  
 [BALLAST] 2 MAGNETEK BALLAST #B2321120RH-A

**CHARACTERISTICS**

Total Rated Lamp Lumens	11600 (4 lamps)
Total Luminaire Efficiency	75.9 %
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	154
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.34
Spacing Criteria (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.76 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4745	5038	4946
55	3803	3956	3995
65	2865	2846	2980
75	2348	2148	2436
85	2696	2436	2678

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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>
<b>0.0</b>	3359	3359	3359	3359	3359
<b>2.5</b>	3368	3364	3362	3355	3356
<b>5.0</b>	3358	3362	3368	3380	3392
<b>7.5</b>	3339	3349	3382	3413	3434
<b>10.0</b>	3315	3342	3404	3455	3486
<b>12.5</b>	3281	3327	3419	3504	3539
<b>15.0</b>	3237	3302	3437	3535	3576
<b>17.5</b>	3194	3276	3445	3559	3594
<b>20.0</b>	3137	3240	3435	3553	3578
<b>22.5</b>	3076	3196	3413	3515	3531
<b>25.0</b>	3005	3147	3363	3443	3444
<b>27.5</b>	2923	3082	3292	3335	3311
<b>30.0</b>	2843	3009	3196	3194	3159
<b>32.5</b>	2741	2917	3066	3025	2988
<b>35.0</b>	2638	2802	2921	2853	2821
<b>37.5</b>	2512	2668	2747	2676	2651
<b>40.0</b>	2384	2520	2574	2510	2495
<b>42.5</b>	2233	2355	2388	2332	2326
<b>45.0</b>	2070	2183	2198	2157	2158
<b>47.5</b>	1900	2002	1996	1979	1975
<b>50.0</b>	1704	1798	1781	1787	1783
<b>52.5</b>	1524	1608	1596	1608	1601
<b>55.0</b>	1346	1410	1400	1426	1414
<b>57.5</b>	1182	1230	1228	1259	1243
<b>60.0</b>	1022	1055	1052	1091	1075
<b>62.5</b>	879	901	894	936	924
<b>65.0</b>	747	756	742	788	777
<b>67.5</b>	634	634	621	656	655
<b>70.0</b>	532	529	513	544	549
<b>75.0</b>	375	363	343	366	389
<b>80.0</b>	274	253	248	254	278
<b>85.0</b>	145	146	131	141	144
<b>90.0</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	2802.67	24.2	31.8
0-40	4565.06	39.4	51.9
0-60	7488.11	64.6	85.1
0-90	8802.36	75.9	100
90-120	0	0	0
90-130	0	0	0
90-150	0	0	0
90-180	0	0	0
0-180	8802.36	75.9	100

Total Luminaire Efficiency = 75.9%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	322.66
10-20	967.48
20-30	1512.54
30-40	1762.38
40-50	1662.09
50-60	1260.97
60-70	767.3
70-80	400.2
80-90	146.75
90-100	0
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

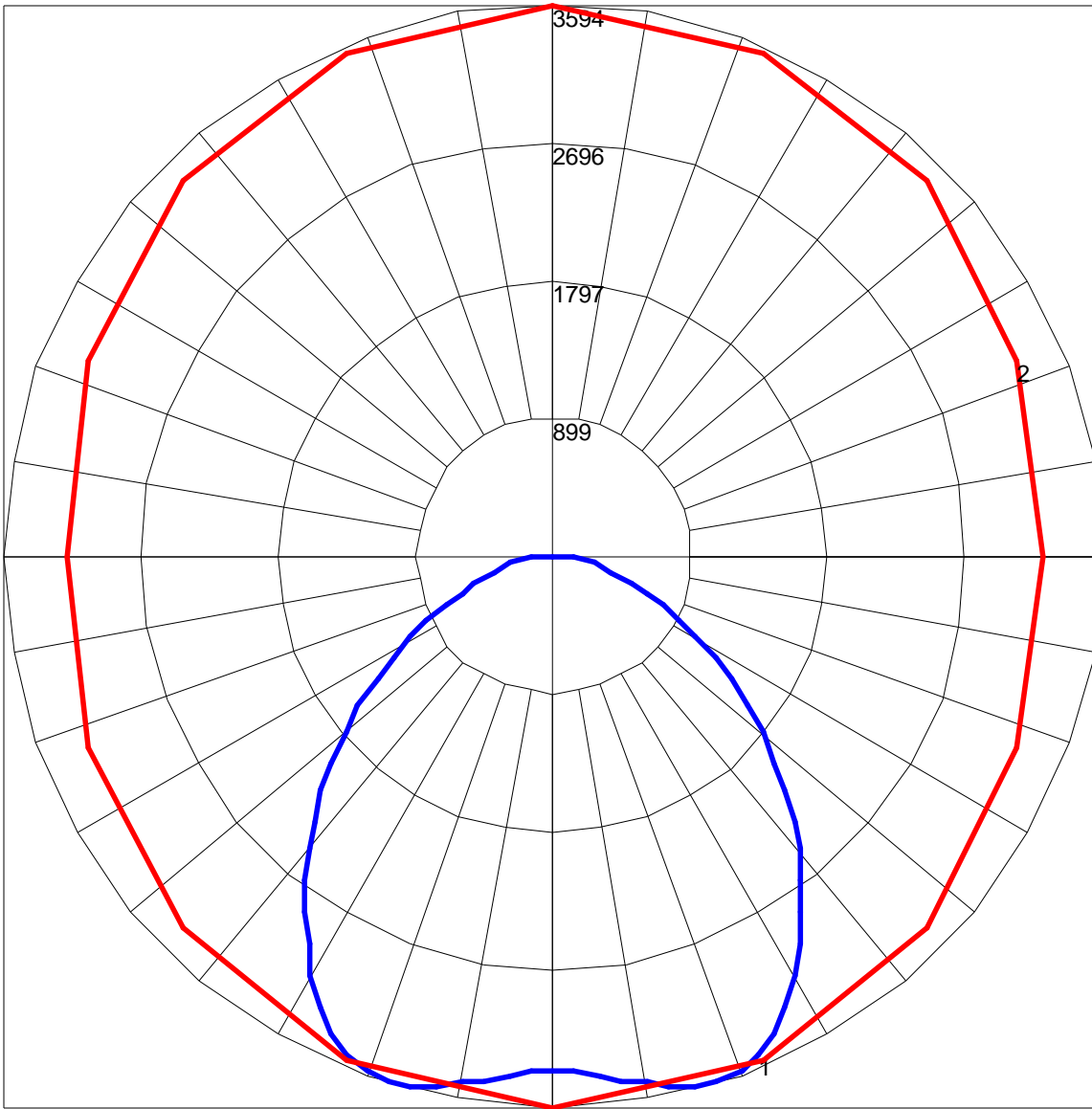
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76
1	83	80	77	74	81	78	75	73	75	73	71	72	70	69	69	68	67	65
2	76	71	66	62	74	69	65	61	66	63	60	64	61	58	62	59	57	55
3	70	63	57	52	68	61	56	52	59	55	51	57	53	50	55	52	49	48
4	64	56	50	45	63	55	49	45	53	48	44	51	47	43	50	46	43	41
5	60	50	44	39	58	49	43	39	48	42	38	46	42	38	45	41	38	36
6	55	45	39	34	54	45	39	34	43	38	34	42	37	34	41	37	33	32
7	51	41	35	31	50	41	35	30	40	34	30	39	34	30	38	33	30	28
8	48	38	32	27	47	37	31	27	36	31	27	35	31	27	35	30	27	25
9	45	35	29	25	44	34	29	25	34	28	25	33	28	24	32	28	24	23
10	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	21

POLAR GRAPH



Maximum Candela = 3594 Located At Horizontal Angle = 90, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)