

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TCPATLASGS60HRS.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]ITL71594  
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [ISSUE DATE]02/20/12  
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS, INC.  
 [LUMCAT]TCPATLASGS60HRS  
 [LUMINAIRE]FABRICATED WHITE PAINTED METAL HOUSING AND TRIM, FABRICATED  
 [MORE]WHITE PAINTED METAL LED DRIVER COVER, 2 EXTRUDED FINNED METAL HEAT  
 [MORE]SINKS, EACH HEAT SINK CONTAINS 1 CIRCUIT BOARD WITH 30 LEDS,  
 [MORE]FORMED WHITE PAINTED METAL TRIM PLATE WITH 1 APERTURE PER LED, 1  
 [MORE]CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED.  
 [LAMP]SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP  
 [MORE]POSITION.  
 [OTHER]TOTAL INPUT WATTS = 98.6 AT 120.0 VOLTS  
 [\_LEDDRIVER]MEAN WELL HLG-120H-48A  
 [\_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT  
 [MORE]VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.  
 [OTHER]TEST PROCEDURE: IESNA LM-79-08  
 [OTHER]TEST DISTANCE = 25.25 FEET  
 [\_ABSOLUTE LUMENS]7929

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	98.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.50
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.98 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	44414	61990	44430
55	2777	35629	2640
65	717	1831	584
75	780	433	650
85	386	129	257

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
<b>0.0</b>	3029	3029	3029	3029	3029	3029	3029	3029	3029	3029
<b>2.5</b>	3034	3034	3031	3030	3027	3027	3026	3026	3029	3031
<b>5.0</b>	3038	3037	3035	3031	3027	3024	3022	3021	3022	3022
<b>7.5</b>	3039	3038	3037	3031	3026	3020	3018	3017	3018	3017
<b>10.0</b>	3038	3037	3036	3028	3023	3018	3016	3014	3013	3013
<b>12.5</b>	3035	3032	3031	3024	3018	3014	3013	3008	3005	3005
<b>15.0</b>	3030	3027	3025	3018	3012	3009	3009	3003	3001	2999
<b>17.5</b>	3021	3021	3017	3012	3008	3006	3008	3003	2999	2997
<b>20.0</b>	3014	3019	3012	3009	3009	3009	3012	3007	3001	2996
<b>22.5</b>	3007	3015	3011	3011	3015	3024	3025	3016	3005	2998
<b>25.0</b>	3001	3010	3010	3019	3036	3053	3049	3031	3010	3000
<b>27.5</b>	2991	3001	3006	3036	3095	3137	3113	3057	3016	3001
<b>30.0</b>	2978	2989	3009	3098	3266	3374	3294	3128	3029	2997
<b>32.5</b>	2955	2967	3020	3179	3416	3576	3454	3220	3049	2982
<b>35.0</b>	2928	2943	3047	3244	3474	3592	3500	3286	3078	2963
<b>37.5</b>	2920	2939	3077	3283	3494	3601	3503	3297	3096	2957
<b>40.0</b>	2943	2955	3074	3282	3528	3665	3542	3286	3052	2912
<b>42.5</b>	2825	2845	3002	3281	3588	3756	3600	3268	2971	2815
<b>45.0</b>	2800	2833	3050	3406	3747	3908	3751	3356	3007	2823
<b>47.5</b>	2866	2901	3134	3581	4130	4355	4013	3455	2985	2711
<b>50.0</b>	1561	1613	2015	2839	3868	4659	3883	2795	1965	1588
<b>52.5</b>	234	239	310	912	2733	3524	2754	1203	495	319
<b>55.0</b>	142	144	166	218	704	1822	969	253	172	138
<b>57.5</b>	94	96	111	145	195	429	233	147	98	80
<b>60.0</b>	64	66	79	101	131	147	132	89	63	50
<b>62.5</b>	41	41	51	68	92	100	83	56	41	34
<b>65.0</b>	27	27	32	39	60	69	48	32	27	23
<b>67.5</b>	24	24	26	24	34	40	26	19	20	18
<b>70.0</b>	21	22	24	20	20	21	15	14	17	16
<b>72.5</b>	19	19	20	16	16	13	10	10	14	14
<b>75.0</b>	18	18	18	14	12	10	9	9	13	14
<b>77.5</b>	14	14	15	11	8	8	7	7	9	9
<b>80.0</b>	9	11	11	6	6	6	5	5	7	8
<b>82.5</b>	6	6	7	3	3	3	3	3	4	4
<b>85.0</b>	3	2	2	1	1	1	1	1	2	2
<b>87.5</b>	0	0	1	0	0	0	0	0	1	1
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

	<u>90</u>
<b>0.0</b>	3029
<b>2.5</b>	3032
<b>5.0</b>	3025
<b>7.5</b>	3018
<b>10.0</b>	3010
<b>12.5</b>	3002
<b>15.0</b>	2996
<b>17.5</b>	2996
<b>20.0</b>	2998
<b>22.5</b>	3002
<b>25.0</b>	3000
<b>27.5</b>	2998
<b>30.0</b>	2995

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	2977
<b>35.0</b>	2955
<b>37.5</b>	2947
<b>40.0</b>	2893
<b>42.5</b>	2798
<b>45.0</b>	2801
<b>47.5</b>	2677
<b>50.0</b>	1551
<b>52.5</b>	302
<b>55.0</b>	135
<b>57.5</b>	79
<b>60.0</b>	49
<b>62.5</b>	33
<b>65.0</b>	22
<b>67.5</b>	18
<b>70.0</b>	16
<b>72.5</b>	15
<b>75.0</b>	15
<b>77.5</b>	10
<b>80.0</b>	8
<b>82.5</b>	4
<b>85.0</b>	2
<b>87.5</b>	1
<b>90.0</b>	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	2550.84	N.A.	32.20
0-40	4575.56	N.A.	57.70
0-60	7867.8	N.A.	99.20
0-90	7929.13	N.A.	100.00
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
0-180	7929.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	288.79
10-20	853.79
20-30	1408.26
30-40	2024.72
40-50	2526.39
50-60	765.84
60-70	45.47
70-80	13.31
80-90	2.55
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

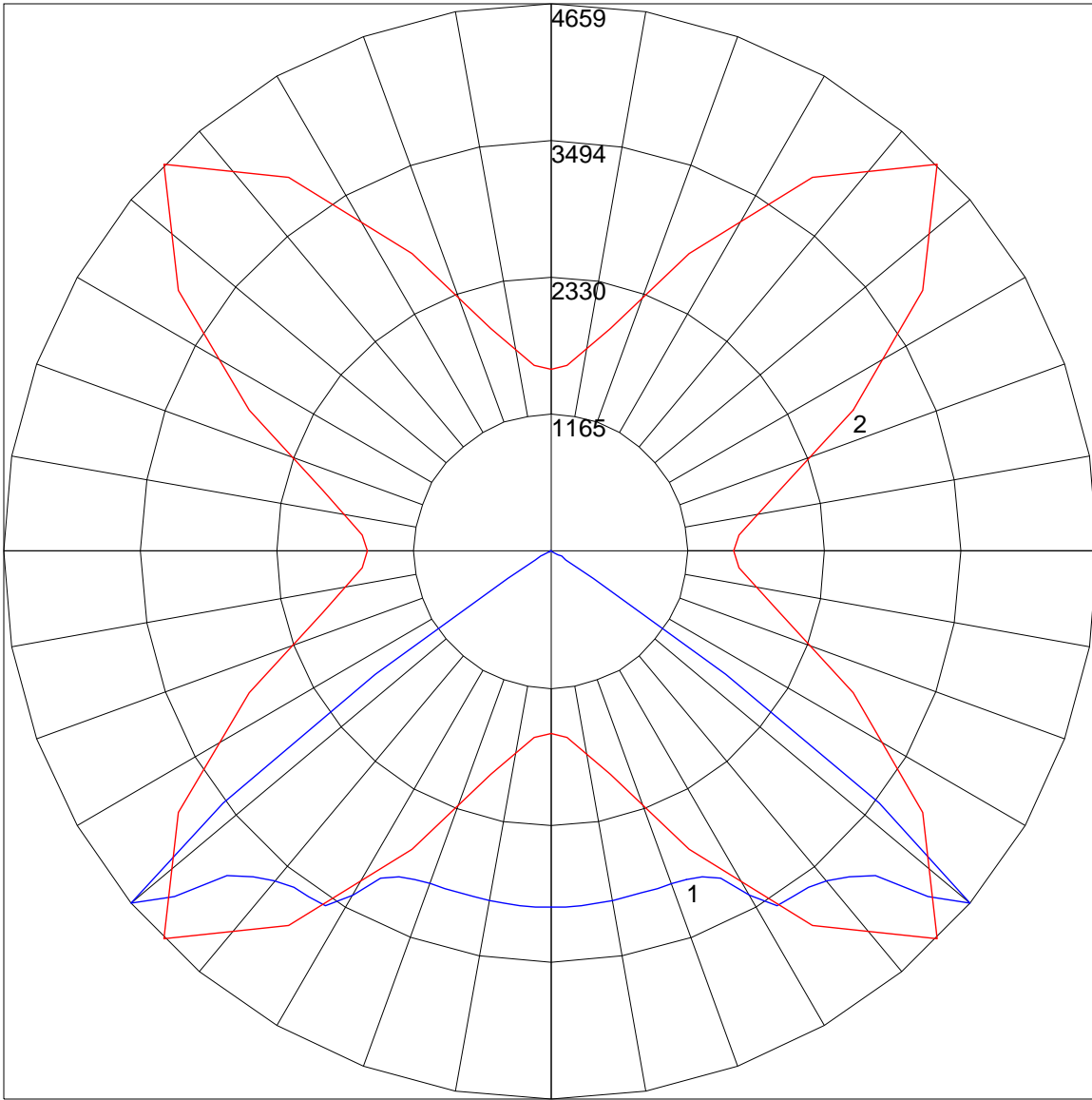
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	0
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	0
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	0
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70	0
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61	0
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54	0
6	76	65	57	51	75	64	56	51	62	55	51	60	55	50	59	54	50	48	0
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43	0
8	66	54	46	40	64	53	46	40	52	45	40	50	44	40	49	44	40	38	0
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34	0
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	0

POLAR GRAPH



Maximum Candela = 4659 Located At Horizontal Angle = 45, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)