



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 1070240.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TESTDATE] 02-jul-10  
 [TEST] 1070240  
 [ISSUE DATE] 02-jul-10  
 [MANUFAC] ELECTROCONTROL  
 [LUMCAT] FLUORESCENTE T5  
 [LUMINAIRE] IMPERIO 2X28W/120/277MV SOBREPPIRAMIDAL REJ SEMIESPECULAR 2" 2X1X16C  
 [LAMPCAT] Cod. Identificación  
 [LAMP] 1070236 GE STARCOAT T5 F28W/840 HE-Flujo: 4777 lm  
 [BALLAST] BALASTO ELECTRONICO ELECTROCONTROL  
 [TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL S.A.  
 [MORE] web: www.electrocontrol.com.co  
 [MORE] 400 55 00 Ext. 1501 y 1403 Servicio al cliente 01-8000-52-7878  
 [MORE] El laboratorio LAPEC garantiza la trazabilidad de sus patrones.

**CHARACTERISTICS**

Lumens Per Lamp	2640 (2 lamps)
Total Lamp Lumens	5280
Luminaire Lumens	3552
Total Luminaire Efficiency	67 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	1.00
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.31 m
Luminous Height	0.05 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5640	3946	2330
55	3669	3481	1820
65	891	1330	864
75	292	153	172
85	20	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131
<b>5</b>	1129	1128	1128	1128	1129	1127	1129	1126	1125	1124
<b>10</b>	1146	1148	1148	1147	1146	1145	1143	1141	1138	1134
<b>15</b>	1167	1168	1164	1162	1160	1154	1152	1145	1139	1130
<b>20</b>	1198	1198	1196	1192	1185	1173	1162	1150	1140	1125
<b>25</b>	1263	1261	1257	1247	1231	1214	1192	1169	1147	1124
<b>30</b>	1374	1375	1364	1346	1319	1283	1244	1207	1168	1131
<b>35</b>	1520	1519	1505	1475	1435	1388	1332	1277	1218	1161
<b>40</b>	1624	1621	1603	1571	1530	1477	1418	1351	1279	1201
<b>45</b>	1571	1568	1553	1527	1497	1458	1413	1354	1285	1207
<b>50</b>	1308	1305	1298	1289	1282	1268	1250	1218	1178	1118
<b>55</b>	843	839	841	849	865	886	914	930	931	910
<b>60</b>	431	424	427	434	450	475	502	539	572	598
<b>65</b>	155	151	151	155	164	177	197	223	251	278
<b>70</b>	70	66	66	63	60	61	58	59	68	80
<b>75</b>	33	32	32	31	32	28	27	24	21	23
<b>80</b>	16	15	16	11	13	15	13	9	11	9
<b>85</b>	1	2	0	2	1	2	1	1	1	0
<b>90</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	1131	1131	1131	1131	1131	1131	1131	1131	1131
<b>5</b>	1125	1125	1123	1120	1120	1118	1117	1116	1113
<b>10</b>	1133	1129	1125	1121	1118	1114	1112	1109	1108
<b>15</b>	1124	1117	1109	1099	1094	1086	1082	1082	1079
<b>20</b>	1111	1102	1088	1073	1064	1054	1049	1043	1042
<b>25</b>	1103	1083	1062	1047	1029	1015	1006	1000	997
<b>30</b>	1093	1064	1033	1009	984	962	952	943	941
<b>35</b>	1106	1056	1011	972	936	910	892	880	878
<b>40</b>	1125	1054	989	935	890	856	829	817	807
<b>45</b>	1119	1033	957	889	832	787	753	732	724
<b>50</b>	1042	961	881	807	745	692	652	625	614
<b>55</b>	869	808	738	673	610	554	516	492	486
<b>60</b>	605	584	544	489	442	399	362	343	334
<b>65</b>	303	323	323	303	269	234	206	192	186
<b>70</b>	95	113	127	135	124	106	94	92	87
<b>75</b>	22	24	30	32	31	28	23	24	27
<b>80</b>	8	6	8	8	4	6	5	7	5
<b>85</b>	1	0	2	0	0	0	0	0	0
<b>90</b>	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	427.00	8.00	12.00
0-30	951.00	18.00	26.00
0-40	1693.00	32.00	47.00
0-60	3260.00	61.00	91.00
0-80	3549.00	67.00	99.00
0-90	3552.00	67.00	99.00
10-90	3444.00	65.00	96.00
20-40	1265.00	23.00	35.00
20-50	2152.00	40.00	60.00
40-70	1816.00	34.00	51.00
60-80	289.00	5.00	8.00
70-80	39.00	0.00	1.00
80-90	3.00	5.00	8.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	3552.00	67.00	99.00

Total Luminaire Efficiency = 67.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	107.66
10-20	319.52
20-30	524.14
30-40	741.71
40-50	886.50
50-60	680.56
60-70	249.74
70-80	39.55
80-90	3.04
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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67	
1	74	71	69	67	72	70	68	66	67	65	64	64	63	62	62	61	60	58	
2	68	63	59	56	66	62	58	55	59	56	54	57	55	53	55	53	51	50	
3	62	56	51	47	61	55	50	46	53	49	46	51	48	45	49	46	44	43	
4	57	49	44	40	55	49	43	39	47	42	39	45	42	38	44	41	38	37	
5	52	44	38	34	51	43	38	34	42	37	34	41	36	33	39	36	33	31	
6	48	40	34	30	47	39	33	29	38	33	29	37	32	29	36	32	29	27	
7	44	36	30	26	43	35	30	26	34	29	26	33	29	25	32	28	25	24	
8	41	32	27	23	40	32	26	23	31	26	23	30	26	22	29	25	22	21	
9	38	29	24	20	37	29	24	20	28	23	20	28	23	20	27	23	20	19	
10	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	17	

POLAR GRAPH



Maximum Candela = 1624 Located At Horizontal Angle = 0, Vertical Angle = 40  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Vertical Plane Through Horizontal Angles (90 - 270)