



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : TESTA-SQ30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] Unknown

[TESTLAB] Dongguan Hongnuo Product Testing Service Co., Ltd.

[TESTDATE] 2016-12-03

[ISSUEDATE] Unknown

[MANUFAC] BeLuce Canada Inc.

[LAMP] TESTA 12-24V 30W IH-F8-48W

[MORE] BeLuce REMOTE HEAD TESTA

[MORE] LUMEN RATING = 2578 LMS

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

### CHARACTERISTICS

Lumens Per Lamp	2577.88 (1 lamp)
Total Lamp Lumens	2577.88
Luminaire Lumens	2578
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	29.883
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.28
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.15 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7528	4519	6952
55	5478	3107	3512
65	3133	1742	2636
75	1775	789	1275
85	775	248	387

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**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	9730.337	9730.337	9730.337	9730.337	9730.337	9730.337	9730.337	9730.337	9730.337	9730.337
1	10295.634	8578.670	9071.091	9351.345	9474.968	9453.870	9529.467	9692.213	9937.422	10099.846
2	10489.419	7906.124	8482.653	8825.559	8955.978	8899.477	8957.372	10041.628	10217.999	10322.204
3	10530.615	7245.165	7875.835	8222.139	8407.735	8260.616	8303.887	10284.083	10365.474	10420.294
4	10430.486	6503.494	7173.322	7618.038	7745.059	7560.500	7664.026	10383.174	10394.404	10415.502
5	10169.292	5770.334	6459.902	6933.227	7047.660	6898.146	6955.720	10342.981	10299.746	10290.556
6	9761.695	5114.095	5806.059	6251.812	6418.027	6192.914	6246.377	10171.688	10091.335	10084.863
7	9268.273	4442.908	5109.339	5579.946	5726.742	5494.478	5592.212	9864.185	9775.321	9770.885
8	8629.414	3824.181	4456.211	4981.316	5061.312	4862.127	4905.362	9465.420	9402.446	9359.534
9	7915.994	3310.662	3862.982	4360.516	4437.472	4206.246	4266.859	8943.748	8914.781	8863.358
10	7228.464	2830.507	3376.712	3804.084	3922.594	3645.058	3695.444	8351.877	8343.724	8340.326
11	6486.471	2429.705	2918.013	3365.125	3428.135	3213.251	3236.424	7747.777	7769.913	7703.863
12	5752.954	2112.653	2537.308	2941.185	3002.479	2811.089	2825.751	7059.246	7105.198	7030.959
13	5094.355	1882.785	2255.015	2577.502	2668.405	2469.542	2499.151	6355.338	6430.256	6413.592
14	4418.412	1689.035	1999.614	2299.966	2349.995	2188.608	2243.751	5664.412	5807.417	5755.672
15	3798.648	1526.254	1780.296	2039.451	2078.931	1968.610	2000.616	5048.725	5160.762	5126.039
16	3236.424	1400.592	1608.002	1810.263	1862.724	1755.085	1790.523	4417.375	4563.134	4581.515
17	2780.443	1279.042	1451.014	1622.306	1661.464	1579.036	1632.856	3842.240	4014.534	4043.464
18	2383.717	1184.384	1318.879	1477.226	1498.683	1441.466	1488.813	3379.430	3567.422	3562.630
19	2077.930	1089.012	1202.086	1338.297	1363.472	1318.200	1363.830	2954.453	3149.240	3145.842
20	1853.533	995.713	1095.484	1190.142	1225.580	1198.689	1249.075	2607.792	2784.519	2812.126
21	1665.219	888.110	973.935	1057.006	1082.217	1085.614	1140.435	2333.652	2491.677	2490.640
22	1513.666	786.300	862.219	928.984	952.800	965.424	1027.039	2077.250	2209.707	2213.461
23	1398.554	684.454	760.409	810.474	847.915	861.218	920.115	1859.648	1962.495	1987.670
24	1292.309	581.285	650.410	700.832	730.800	759.372	823.419	1682.920	1758.518	1776.219
25	1202.408	503.292	565.300	605.138	630.313	652.127	705.231	1516.742	1568.844	1593.698
26	1128.527	443.715	501.611	533.259	555.073	562.904	607.176	1371.340	1408.781	1444.184
27	1037.588	392.971	440.997	474.719	487.307	495.818	532.580	1252.150	1272.212	1292.989
28	934.419	347.698	388.215	423.618	431.449	439.638	463.812	1137.717	1138.397	1137.359
29	834.290	310.579	348.378	373.231	387.857	382.422	400.123	1016.132	998.430	1007.978
30	733.160	271.421	307.826	335.075	344.623	338.472	350.416	901.055	877.560	881.637
31	621.480	244.172	276.499	307.146	310.901	305.787	312.939	805.682	770.637	757.012
32	528.181	215.564	251.646	279.253	281.291	276.178	281.613	687.208	654.165	640.898
33	458.341	196.825	230.869	257.797	260.836	248.928	252.683	593.551	562.547	560.187
34	394.688	180.840	212.488	241.776	240.417	229.188	231.549	518.955	493.422	491.062
35	337.793	167.216	196.503	228.151	221.679	209.091	213.847	452.226	434.167	433.166
36	296.954	155.272	183.201	213.847	206.016	193.070	198.864	397.727	385.819	385.139
37	257.797	142.326	171.614	199.901	192.749	177.085	184.917	351.096	345.302	342.585
38	227.830	133.815	159.706	186.955	178.444	163.461	169.576	316.015	311.259	308.505
39	202.618	125.662	149.836	176.406	165.142	151.195	157.668	282.293	284.009	280.612
40	185.596	119.869	139.966	170.255	153.913	141.647	148.799	256.760	259.835	257.797
41	170.255	112.717	131.098	166.858	143.721	132.814	144.400	234.982	240.417	237.020
42	160.743	108.282	123.624	158.347	134.173	125.304	141.325	214.884	219.640	219.319
43	154.270	103.526	115.435	146.761	125.662	117.831	138.250	194.107	201.581	204.335
44	144.043	101.130	108.640	135.174	117.151	112.359	134.173	178.766	186.955	188.314
45	133.136	97.054	102.489	122.944	111.000	108.640	127.343	163.783	171.972	173.688
46	124.983	95.695	97.733	111.680	104.206	104.528	119.869	152.911	157.310	161.065
47	117.831	93.656	91.261	103.526	99.772	101.488	112.359	140.288	145.759	148.799
48	114.755	93.299	88.185	96.017	93.299	97.376	104.885	131.777	134.173	139.287
49	114.076	91.261	85.467	87.863	89.222	93.978	97.733	123.266	124.983	134.173
50	113.754	88.185	83.429	83.107	85.825	91.261	93.299	116.793	114.433	127.700
51	111.680	86.826	79.352	77.314	83.107	87.863	88.185	111.680	106.244	118.832
52	106.924	84.466	77.993	73.559	80.354	83.107	83.107	106.602	98.413	108.962
53	104.206	82.070	75.597	69.482	76.277	79.352	78.315	102.847	93.299	99.772

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**CANDELA TABULATION - (Cont.)**

54	100.809	76.956	73.559	67.087	73.202	75.955	73.202	99.450	88.543	91.940
55	98.770	73.202	70.484	63.332	71.163	71.163	69.482	96.017	84.466	84.108
56	95.695	68.445	67.766	60.614	68.124	66.729	64.691	91.261	80.032	77.636
57	91.261	63.689	65.048	58.576	63.689	62.330	60.292	88.865	77.993	71.843
58	87.184	58.897	63.010	56.537	60.971	58.576	57.217	85.467	73.881	68.803
59	83.787	55.178	60.292	54.821	58.576	54.141	52.782	81.713	70.484	64.691
60	79.352	51.745	57.217	53.462	55.858	50.744	50.744	76.956	67.087	61.973
61	73.881	48.348	54.141	53.140	53.462	48.026	46.989	73.202	63.689	59.255
62	68.803	45.988	52.103	52.425	50.065	44.951	44.593	70.162	60.971	55.500
63	64.691	42.555	49.028	49.028	48.706	41.875	41.554	66.407	58.897	52.425
64	59.577	40.195	45.988	46.989	45.308	39.515	38.836	62.652	55.500	50.065
65	55.858	38.156	43.592	46.989	42.555	37.119	37.441	58.576	52.425	46.989
66	52.425	35.760	41.554	44.951	39.837	34.723	35.760	55.500	49.707	44.593
67	49.385	32.685	40.195	42.233	38.836	33.043	34.044	51.745	46.989	43.234
68	47.347	31.004	37.119	38.156	36.082	29.967	31.004	48.348	43.234	41.554
69	45.308	28.608	33.722	35.403	33.043	28.608	28.608	44.593	40.517	41.196
70	41.196	26.892	31.326	32.363	31.004	26.570	26.892	43.234	38.836	40.195
71	39.515	24.532	29.288	29.967	29.288	24.853	24.853	40.517	37.799	39.515
72	37.799	22.458	26.892	27.571	26.892	23.173	23.495	38.156	35.403	38.156
73	35.081	21.099	24.174	25.891	24.174	21.099	20.777	34.723	33.043	37.119
74	33.043	19.060	21.456	24.174	21.456	19.060	19.740	32.363	31.004	34.723
75	30.325	17.022	19.418	21.778	19.418	17.701	17.701	30.325	29.288	32.363
76	28.251	15.663	17.701	19.418	17.701	16.021	15.663	27.929	26.892	29.967
77	26.570	14.304	16.343	17.701	16.021	14.626	13.947	26.212	24.853	27.249
78	24.174	13.267	14.626	16.021	14.304	13.267	12.588	23.852	23.173	24.853
79	22.458	11.908	12.945	14.304	13.267	12.266	11.229	22.136	21.778	22.136
80	21.099	10.549	12.266	12.588	11.908	11.229	10.227	20.097	19.418	20.419
81	19.418	9.190	10.549	10.907	10.907	9.870	8.511	18.381	17.380	17.701
82	17.701	8.189	9.548	9.870	9.870	8.869	7.832	15.663	15.663	16.343
83	15.341	7.832	8.511	8.869	8.511	8.189	6.794	13.947	13.267	13.947
84	13.625	6.115	7.474	7.474	7.474	6.794	6.115	12.588	12.588	11.908
85	12.266	5.114	5.793	6.115	6.473	6.115	5.436	11.586	10.907	9.870
86	10.907	5.114	5.793	5.793	5.436	5.793	5.114	10.227	8.869	8.511
87	9.190	5.436	5.793	6.115	5.793	5.436	5.114	9.190	8.189	7.152
88	7.832	5.114	6.115	6.115	5.436	5.436	4.756	7.832	6.473	6.473
89	6.794	5.114	5.793	6.115	5.436	4.756	4.756	7.152	5.793	5.114
90	6.115	5.114	5.793	5.793	5.436	5.114	4.434	6.473	4.756	4.434

Vert. Angles	Horizontal Angles		
	<u>300</u>	<u>330</u>	<u>360</u>
0	9730.337	9730.337	9730.337
1	10197.901	10233.339	10295.634
2	10392.365	10435.278	10489.419
3	10463.171	10502.364	10530.615
4	10419.937	10435.958	10430.486
5	10255.796	10223.791	10169.292
6	9967.389	9908.133	9761.695
7	9569.626	9431.019	9268.273
8	9119.796	8841.580	8629.414
9	8534.076	8179.905	7915.994
10	7873.117	7515.871	7228.464
11	7242.769	6778.956	6486.471
12	6530.028	6045.796	5752.954
13	5828.194	5395.744	5094.355
14	5208.789	4715.688	4418.412

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CANDELA TABULATION - (Cont.)

15	4571.287	4069.033	3798.648
16	3993.757	3530.302	3236.424
17	3481.275	3018.821	2780.443
18	3065.453	2605.074	2383.717
19	2689.540	2298.250	2077.930
20	2373.525	2025.469	1853.533
21	2129.675	1812.301	1665.219
22	1901.202	1642.726	1513.666
23	1706.057	1504.118	1398.554
24	1552.502	1372.699	1292.309
25	1408.423	1265.417	1202.408
26	1283.477	1178.591	1128.527
27	1168.721	1087.653	1037.588
28	1048.853	976.652	934.419
29	924.871	876.881	834.290
30	817.948	771.996	733.160
31	710.345	659.279	621.480
32	605.138	555.752	528.181
33	518.955	483.230	458.341
34	457.340	417.825	394.688
35	400.123	366.079	337.793
36	350.416	323.846	296.954
37	307.826	280.254	257.797
38	276.499	245.173	227.830
39	248.571	219.640	202.618
40	228.509	199.543	185.596
41	209.091	180.840	170.255
42	193.070	165.857	160.743
43	176.406	153.591	154.270
44	164.820	143.721	144.043
45	152.232	133.494	133.136
46	140.646	125.984	124.983
47	129.739	118.510	117.831
48	120.906	113.396	114.755
49	112.717	108.282	114.076
50	105.207	103.526	113.754
51	99.092	99.450	111.680
52	93.656	97.733	106.924
53	88.865	96.374	104.206
54	85.825	94.658	100.809
55	83.429	92.977	98.770
56	79.674	90.939	95.695
57	78.315	89.222	91.261
58	75.955	85.467	87.184
59	73.559	83.107	83.787
60	69.804	78.995	79.352
61	66.729	75.597	73.881
62	64.011	71.521	68.803
63	61.973	66.729	64.691
64	58.576	61.651	59.577
65	54.821	57.896	55.858
66	51.066	54.141	52.425
67	49.385	49.707	49.385
68	45.630	45.988	47.347
69	41.196	42.555	45.308
70	38.478	40.874	41.196

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**CANDELA TABULATION - (Cont.)**

<b>71</b>	36.440	37.119	39.515
<b>72</b>	33.722	34.723	37.799
<b>73</b>	32.006	32.006	35.081
<b>74</b>	29.967	30.325	33.043
<b>75</b>	27.929	28.251	30.325
<b>76</b>	26.212	26.212	28.251
<b>77</b>	25.211	23.852	26.570
<b>78</b>	23.173	22.136	24.174
<b>79</b>	20.777	20.777	22.458
<b>80</b>	19.418	18.738	21.099
<b>81</b>	18.059	17.022	19.418
<b>82</b>	16.021	14.984	17.701
<b>83</b>	13.947	13.625	15.341
<b>84</b>	12.945	12.266	13.625
<b>85</b>	10.907	10.907	12.266
<b>86</b>	9.190	9.870	10.907
<b>87</b>	7.832	8.869	9.190
<b>88</b>	6.794	7.832	7.832
<b>89</b>	5.436	7.152	6.794
<b>90</b>	4.756	6.115	6.115

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1632.42	63.30	63.30
0-30	2114.36	82.00	82.00
0-40	2317.32	89.90	89.90
0-60	2494.15	96.80	96.80
0-80	2567.74	99.60	99.60
0-90	2577.88	100.00	100.00
10-90	1859.08	72.10	72.10
20-40	684.90	26.60	26.60
20-50	790.00	30.60	30.60
40-70	224.41	8.70	8.70
60-80	73.60	2.90	2.90
70-80	26.02	1.00	1.00
80-90	10.14	0.40	0.40
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	2577.88	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	718.80
10-20	913.62
20-30	481.94
30-40	202.96
40-50	105.10
50-60	71.73
60-70	47.58
70-80	26.02
80-90	10.14
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

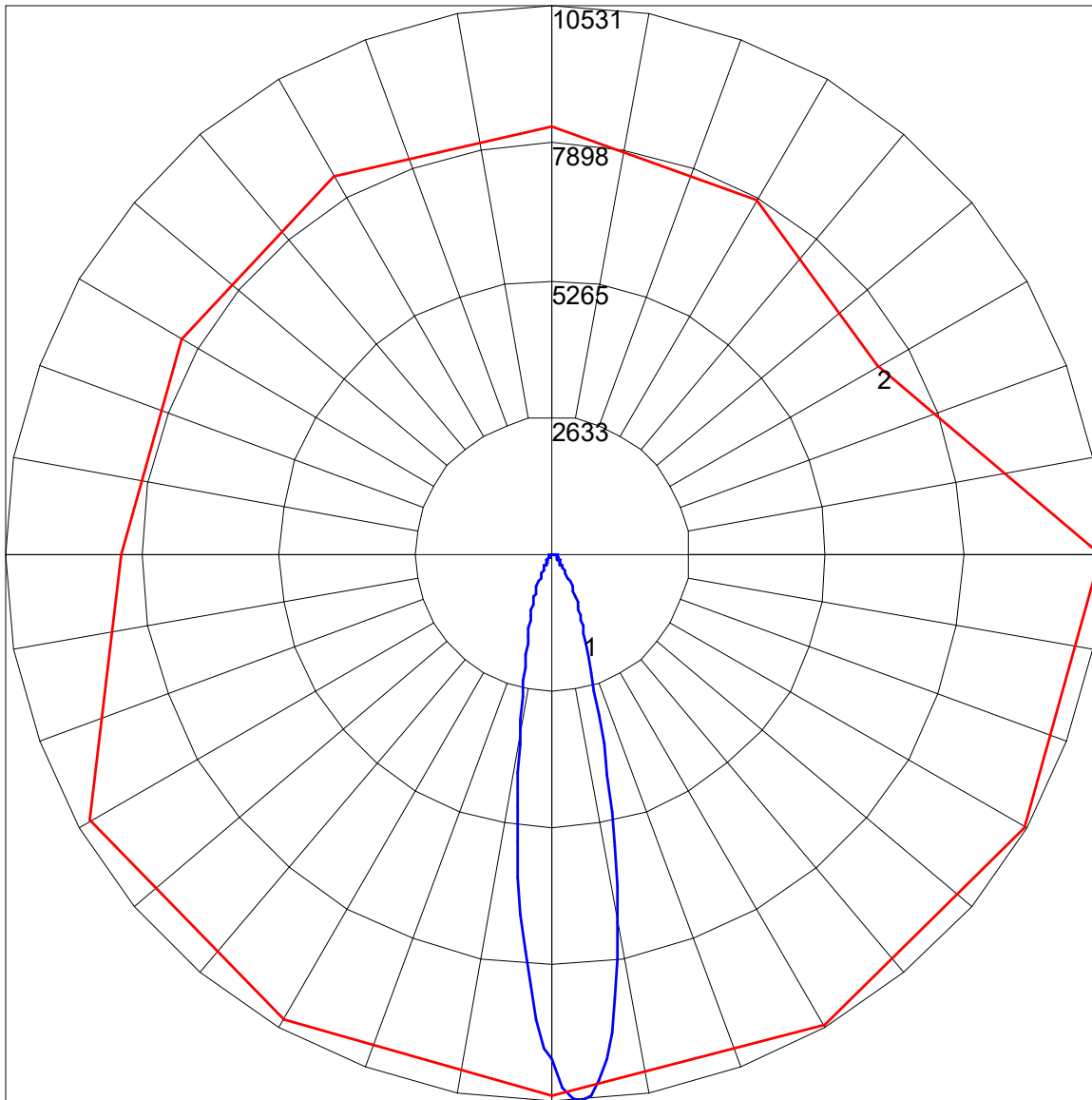
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63

POLAR GRAPH



Maximum Candela = 10530.615 Located At Horizontal Angle = 0, Vertical Angle = 3  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)