

Photometric Report

CATALOG NUMBER: 100w Cobra

Monday, October 12, 2009

FILENAME: ECHUS-EC-100W.IES

ECHUS-EC-100W
IESNA:LM-63-2002
[TEST]03210
[TESTLAB]A.L.P.-LexaLite
[ISSUEDATE]09/04/09
[MANUFAC]Full Spectrum
[LUMCAT]100w Cobra
[LUMINAIRE]GRAY POLYMERIC HOUSING WITH CLEAR ACRYLIC DROP LENS AND
[MORE]INTERNAL SPECULAR REFLECTOR
[LAMPCAT]INDUCTION
[LAMP]ONE 100 WATT INDUCTION LAMP
[BALLAST]FULL SPECTRUM SOLUTIONS INC. EB-100W

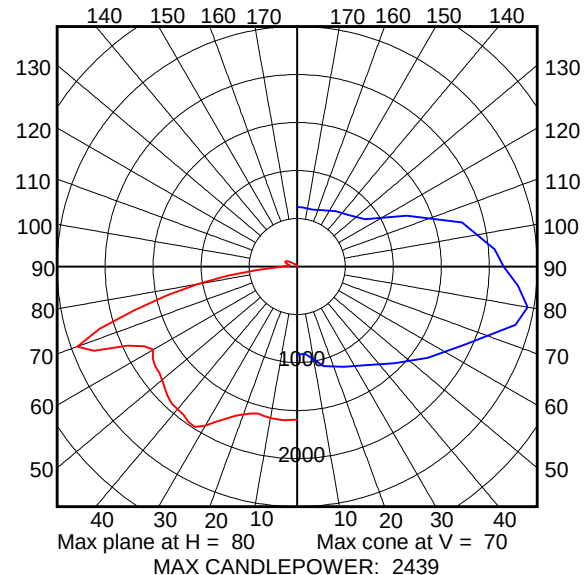
SUMMARY DATA

EFFICIENCY (Total): 92.2 %
EFFICIENCY (Down / Up): 89.5 % / 2.7 %
EFFICIENCY (Street / House): 52.1 % / 40.1 %
ROADWAY CLASSIFICATION: TYPE III, MEDIUM
CUTOFF CLASSIFICATION: SEMICUTOFF
LUMENS/LAMP: 8400
NO. OF LAMPS: 1
LUMINOUS OPENING: RECTANGULAR
Width: 1.13 (Feet)
Length: 1.79
Height: 0.50
INPUT WATTS: 110

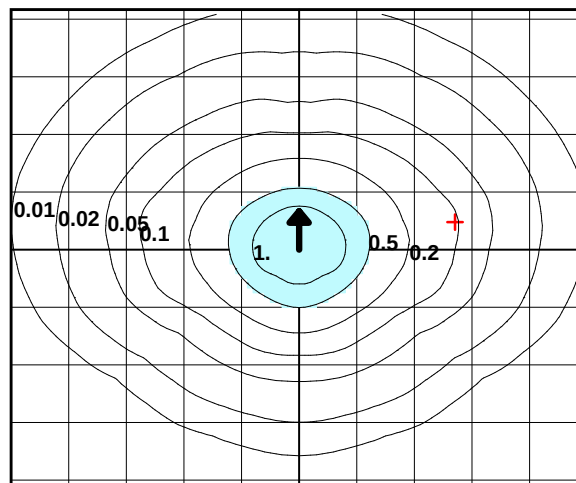
LUMINAIRE CLASSIFICATION SYSTEM (BUG RATING = B2-U3-G2)

FORWARD LIGHT	Lumens (% of Lamp Lumens)	
FL (0-30):	715	(8.5%)
FM (30-60):	1916	(22.8%)
FH (60-80):	1390	(16.5%)
FVH(80-90):	197	(2.3%)
BACKLIGHT		
BL (0-30):	655	(7.8%)
BM (30-60):	1588	(18.9%)
BH (60-80):	940	(11.2%)
BVH(80-90):	119	(1.4%)
UPLIGHT		
UL (90-100):	68	(0.8%)
UH (100-180):	156	(1.9%)
TRAPPED LIGHT:	657	(7.8%)

PLANE & CONE DIAGRAM



ISO-ILLUMINANCE DIAGRAM (fc)



Mounting Height	Multiplier
10	9.000
15	4.000
20	2.250
25	1.440
30	1.000
35	0.735
40	0.563
45	0.444
50	0.360

Shade Limit:
0.5 fc.

Shaded Area:
3597 sq.ft.

+ = Point of max candela

Mounting Height = 30 Feet. Each box represents one mounting height.

Reported data calculated from manufacturer's data file, based on IESNA recommended methods.

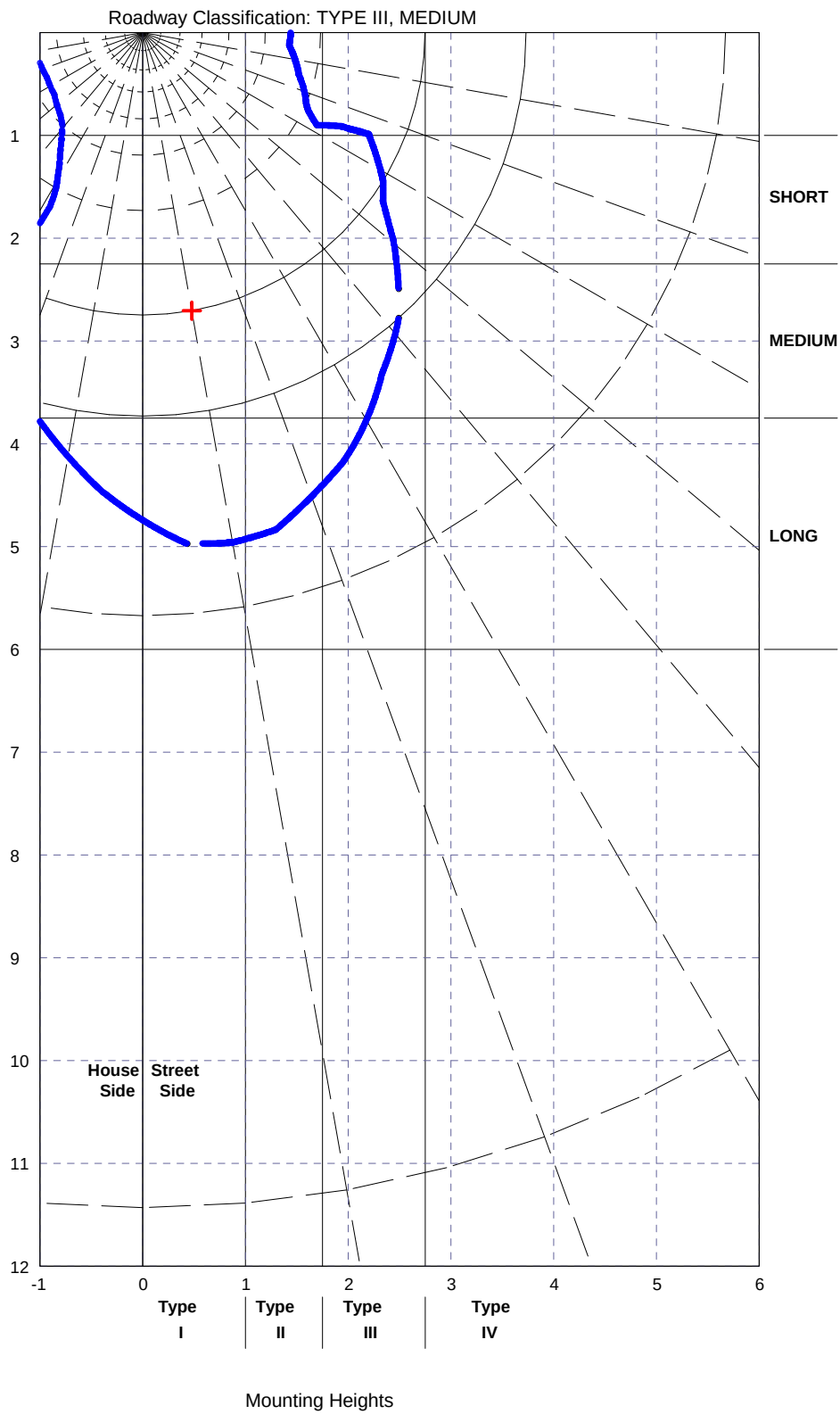
Photometric Viewer v3.4

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CANDELA TABLE

Vertical Angle	Horizontal Angles											
	0	5	15	25	35	45	55	65	75	80	85	90
0	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594
2.5	1606	1604	1605	1603	1604	1603	1602	1600	1598	1598	1597	1596
5	1625	1624	1624	1624	1623	1618	1617	1613	1609	1606	1603	1600
7.5	1613	1611	1610	1613	1619	1618	1618	1617	1611	1606	1602	1598
10	1597	1596	1592	1592	1591	1599	1607	1611	1609	1602	1598	1595
12.5	1606	1605	1617	1618	1614	1621	1635	1631	1607	1593	1580	1571
15	1647	1650	1658	1662	1662	1662	1662	1645	1603	1583	1563	1548
17.5	1703	1697	1689	1692	1700	1691	1660	1643	1624	1605	1584	1561
20	1710	1709	1714	1722	1716	1699	1683	1665	1651	1639	1627	1612
22.5	1731	1738	1743	1737	1721	1711	1702	1700	1691	1683	1671	1660
25	1781	1784	1769	1747	1726	1724	1733	1742	1750	1748	1741	1732
27.5	1823	1814	1788	1747	1721	1733	1764	1795	1815	1821	1820	1811
30	1857	1833	1791	1751	1741	1774	1814	1858	1907	1913	1906	1879
32.5	1834	1826	1799	1769	1775	1826	1881	1937	1982	1982	1955	1922
35	1798	1797	1792	1786	1799	1844	1911	1946	1976	1975	1952	1928
37.5	1762	1765	1778	1780	1787	1835	1887	1915	1942	1947	1935	1919
40	1721	1730	1713	1740	1744	1795	1857	1898	1932	1939	1933	1910
42.5	1591	1619	1638	1647	1668	1747	1830	1880	1925	1934	1930	1893
45	1469	1484	1517	1557	1601	1696	1792	1855	1907	1908	1882	1835
47.5	1372	1365	1402	1460	1519	1639	1759	1854	1895	1872	1832	1790
50	1282	1282	1324	1377	1461	1583	1723	1841	1859	1839	1800	1757
52.5	1235	1244	1284	1342	1445	1549	1689	1802	1830	1812	1785	1750
55	1223	1220	1254	1327	1420	1519	1637	1735	1788	1808	1783	1749
57.5	1181	1192	1220	1284	1377	1461	1584	1687	1743	1784	1791	1756
60	1125	1144	1177	1228	1305	1411	1551	1640	1681	1732	1756	1729
62.5	1059	1076	1150	1191	1286	1417	1572	1691	1734	1796	1827	1754
65	1009	1015	1148	1217	1338	1490	1674	1890	1964	1948	1925	1984
67.5	967	964	1134	1227	1336	1494	1712	1947	2168	2292	2231	2188
<u>70</u>	919	910	1074	1153	1253	1426	1659	1923	2352	<u>2439</u>	2311	2151
72.5	857	850	968	1062	1131	1320	1548	1783	2154	2159	2094	1914
75	792	782	864	932	995	1169	1333	1570	1766	1759	1733	1603
77.5	739	706	748	783	837	959	1087	1254	1379	1389	1374	1291
80	556	529	586	616	654	737	819	929	1048	1055	1045	989
82.5	374	349	401	438	459	507	562	640	739	738	727	693
85	201	186	215	253	281	320	348	390	432	424	410	398
87.5	85	81	92	118	142	165	188	215	235	228	223	233
90	45	45	49	66	85	111	132	148	159	155	149	156
92.5	38	38	37	49	63	89	106	112	117	113	111	118
95	36	37	36	42	49	75	95	88	89	86	91	98
97.5	35	36	37	43	47	81	100	86	76	73	74	79
100	32	33	34	45	52	98	113	99	84	82	81	80
102.5	28	28	30	44	57	111	124	115	98	98	96	92
105	25	25	28	42	61	115	131	123	110	112	108	104
107.5	20	21	25	39	62	111	127	122	115	121	120	118
110	16	17	25	37	64	101	122	122	122	130	132	128
112.5	13	14	22	35	63	89	115	125	128	132	134	133
115	11	12	20	34	61	83	113	125	130	130	130	126
117.5	9	10	17	35	63	82	109	117	121	119	113	106
120	6	8	15	36	64	79	98	100	106	104	102	99
122.5	6	6	13	34	62	72	83	82	88	89	92	87
125	5	5	11	31	54	62	68	66	70	74	75	74
127.5	4	4	9	28	47	52	56	52	56	57	61	62
130	4	4	8	24	38	42	47	43	44	47	51	52
132.5	3	3	8	20	29	33	40	37	38	40	43	43
135	2	2	6	15	21	25	35	31	33	35	37	35
137.5	1	2	5	11	16	19	28	27	30	32	32	30
140	2	2	3	7	12	16	23	24	26	28	28	27
142.5	2	2	2	4	9	12	18	20	21	22	22	22
145	2	2	2	2	5	8	14	15	15	16	17	16
147.5	2	2	2	2	3	5	9	10	11	12	12	12
150	2	2	2	1	1	2	4	4	6	6	6	7
152.5	1	2	2	2	2	2	1	1	1	1	2	2
155	2	2	2	1	1	1	0	0	0	0	0	0
157.5	2	2	2	2	2	1	1	1	0	0	0	0
160	2	2	2	2	2	1	1	0	0	0	0	0
162.5	2	2	2	2	2	2	1	0	0	0	0	0
165	2	2	2	2	1	1	1	0	0	0	0	0
167.5	2	1	1	1	1	1	0	0	0	0	0	0
170	1	1	2	1	1	1	1	0	0	0	0	0
172.5	3	2	2	2	2	1	1	1	0	0	0	0
175	2	2	2	2	2	1	1	0	0	0	1	0
177.5	3	3	3	2	2	2	1	1	0	0	1	0
180	1	1	1	1	1	1	1	1	1	1	1	1

Vertical Angle	Horizontal Angles									
	95	105	115	125	135	145	155	165	175	180
0	1594	1594	1594	1594	1594	1594	1594	1594	1594	1594
2.5	1595	1591	1590	1587	1585	1584	1585	1586	1586	1587
5	1597	1590	1585	1580	1577	1572	1572	1573	1580	1581
7.5	1596	1588	1577	1573	1572	1566	1569	1568	1576	1578
10	1591	1587	1575	1571	1564	1569	1567	1565	1565	1567
12.5	1565	1563	1563	1565	1566	1571	1572	1563	1554	1551
15	1542	1545	1552	1569	1575	1584	1582	1570	1553	1556
17.5	1546	1545	1557	1564	1580	1601	1587	1570	1549	1550
20	1592	1559	1545	1548	1578	1583	1570	1543	1538	1536
22.5	1639	1575	1536	1530	1536	1532	1525	1511	1504	1503
25	1710	1628	1566	1526	1495	1486	1492	1482	1480	1487
27.5	1784	1708	1619	1527	1458	1442	1451	1459	1450	1445
30	1844	1775	1665	1550	1451	1419	1426	1441	1430	1422
32.5	1895	1805	1705	1576	1467	1417	1408	1428	1422	1420
35	1909	1830	1721	1593	1494	1419	1399	1420	1413	1409
37.5	1897	1844	1744	1612	1504	1418	1392	1410	1404	1398
40	1879	1815	1718	1596	1482	1400	1365	1388	1388	1383
42.5	1859	1766	1650	1546	1432	1349	1317	1342	1348	1351
45	1812	1724	1588	1461	1356	1270	1250	1270	1283	1286
47.5	1755	1654	1522	1381	1257	1180	1157	1169	1194	1196
50	1711	1585	1449	1295	1168	1105	1075	1094	1119	1117
52.5	1702	1539	1384	1251	1113	1058	1029	1039	1047	1048
55	1700	1516	1349	1209	1073	1008	987	984	984	983
57.5	1683	1477	1326	1160	1030	956	948	928	927	922
60	1648	1461	1292	1116	981	915	910	882	865	861
62.5	1714	1616	1289	1061	937	875	873	837	800	794
65	1997	1813	1329	1003	890	833	810	771	734	731
67.5	2128	1874	1328	931	836	777	735	698	680	678
70	2065	1779	1257	862	758	704	646	613	619	621
72.5	1824	1562	1100	755	655	606	540	522	533	534
75	1524	1291	909	613	535	500	427	420	434	436
77.5	1211	1004	693	487	422	392	337	328	338	343
80	931	755	511	362	322	288	257	241	244	250
82.5	649	527	361	265	226	186	179	160	154	160
85	389	346	246	188	148	114	112	82	69	72
87.5	236	237	179	144	102	74	64	31	26	25
90	161	166	140	122	83	58	42	17	13	13
92.5	120	115	103	100	59	33	21	11	11	10
95	99	85	72	64	31	15	12	10	9	8
97.5	78	63	40	36	18	12	10	8	7	7
100	79	57	33	25	14	12	10	7	6	5
102.5	90	59	34	20	12	12	9	7	5	4
105	98	63	35	18	12	13	9	6	4	3
107.5	108	65	31	16	11	12	9	5	2	1
110	114	65	29	13	10	10	11	4	2	2
112.5	122	68	25	11	8	9	9	4	2	1
115	116	64	23	11	8	9	7	3	2	2
117.5	100	58	19	10	8	8	5	3	2	2
120	91	46	16	8	7	5	3	2	1	1
122.5	74	35	14	7	6	4	3	2	2	2
125	62	29	11	7	4	3	3	2	1	2
127.5	54	26	9	5	3	3	3	2	2	2
130	46	24	7	4	3	3	2	2	2	2
132.5	38	22	8	4	3	3	2	2	2	3
135	31	18	7	3	2	2	2	2	1	2
137.5	27	16	7	2	2	1	2	2	2	2
140	24	14	7	3	2	2	2	2	2	2
142.5	19	13	6	3	2	2	2	3	2	3
145	15	11	4	2	1	2	2	2	2	2
147.5	12	7	3	1	2	2	2	3	2	3
150	7	3	1	1	1	2	2	2	2	2
152.5	1	1	0	1	1	2	2	2	3	2
155	0	0	0	1	1	2	2	2	2	2
157.5	0	0	0	1	2	2	3	3	2	3
160	0	0	0	1	1	2	2	2	2	2
162.5	0	0	0	1	2	2	3	3	3	3
165	0	1	1	1	1	2	2	3	2	3
167.5	0	0	0	0	1	1	2	2	2	2
170	0	0	0	1	1	2	2	3	2	2
172.5	0	0	0	1	2	2	2	3	3	3
175	0	0	0	1	1	2	2	3	3	3
177.5	1	0	1	2	2	3	3	3	3	3
180	1	1	1	1	1	1	1	1	1	1

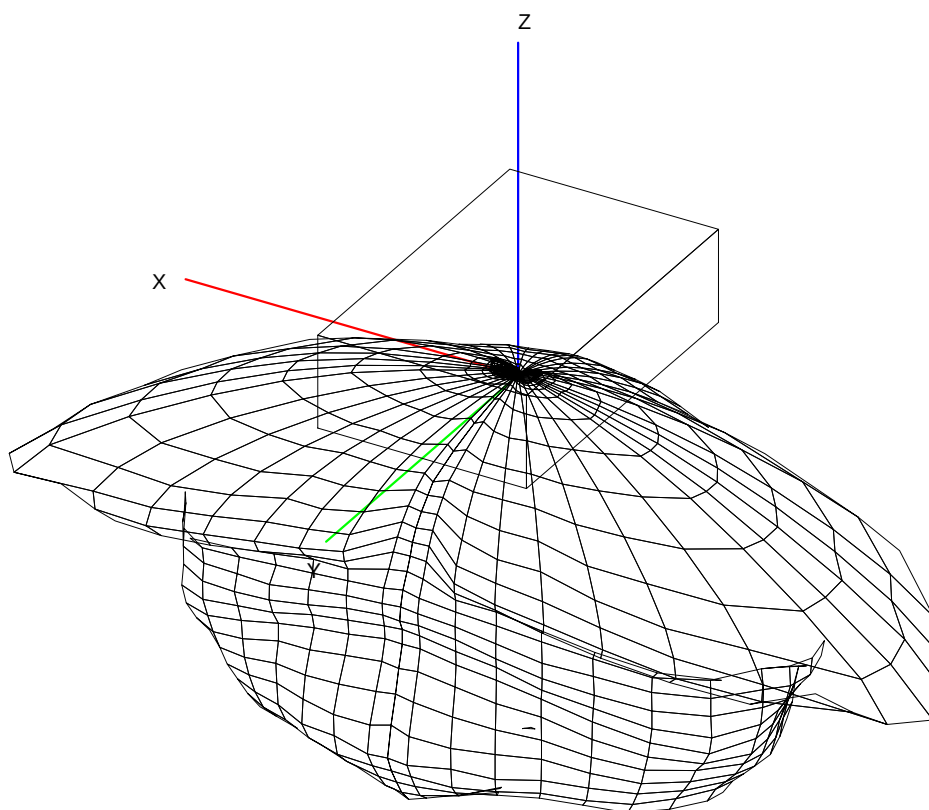
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