

TEST REPORT NO. XXX5C

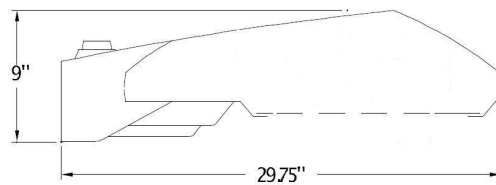
COMPANY XYZ LED ROADWAY LUMINAIRE CAT. NO. XXX5  
WITH SEGMENTED REFLECTOR AND FLAT GLASS LENS  
ARRAY OF WHITE LEDS. LUMEN OUTPUT = 6782 LMS.  
COMPANY ABC 120V LED DRIVER MODEL ABC1

BUG RATING: B 2 U 0 G 2

REPORT PREPARED FOR:

COMPANY XYZ  
SOMEWHERE, ONTARIO

PREPARED BY:



DATE: JAN 7, 2014

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
ABSOLUTE PHOTOMETRY TAKEN.

TESTED IN 30 PLANES LEFT SIDE, 30 PLANES RIGHT SIDE, LEFT AND RIGHT AVERAGED

VERTICAL TEST INCREMENTS ARE 2.5 DEGREES.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
LUMINOUS OPENING OF LUMINAIRE.

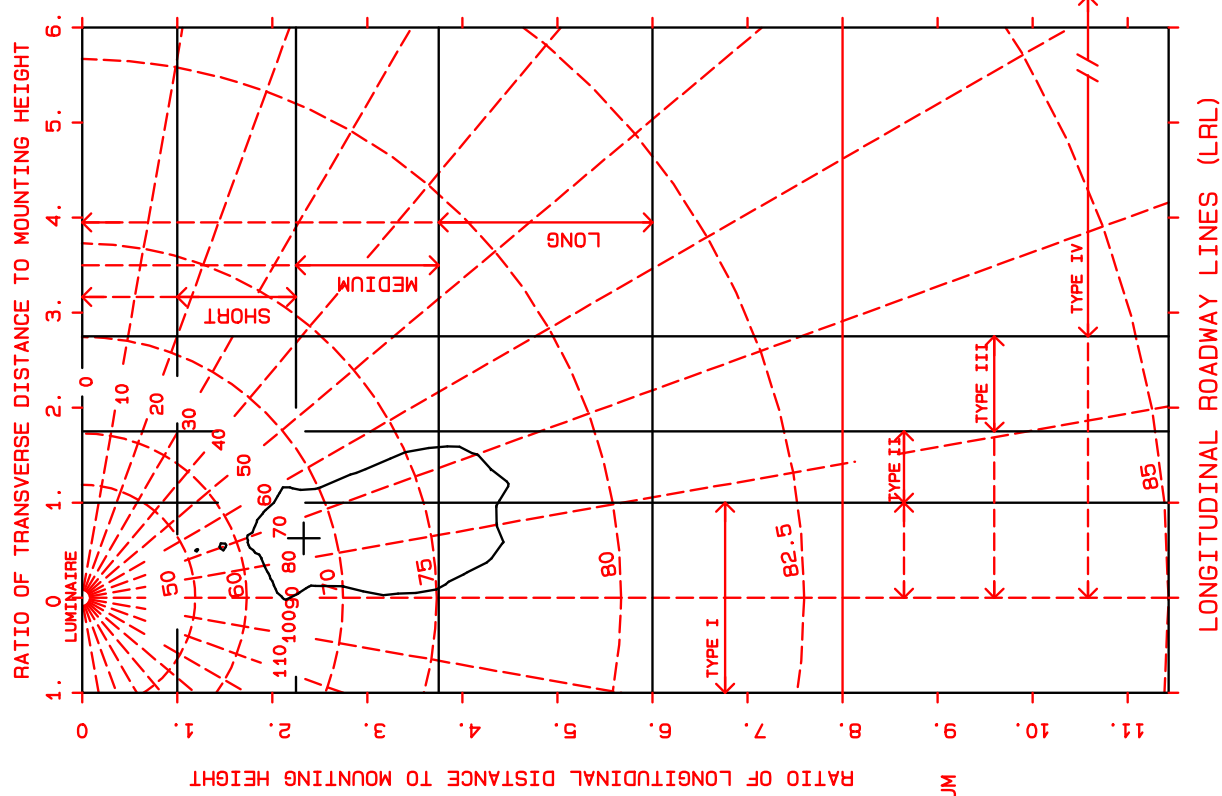
TESTED IN ACCORDANCE WITH IES LM-79-2008

ACCREDITED BY NVLAP (LAB CODE 500084-0) TO ISO/IES 17025:2005 FOR IES LM-79-08

LUMENTRA, INC.  
160 FROBISHER DRIVE, UNIT 5  
WATERLOO, ONTARIO

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NOTE:  
CONTOUR LINE  
IS FOR 50%  
OF THE MAXIMUM  
INTENSITY.

LONGITUDINAL ROADWAY LINES (LRL)

IES CLASSIFICATION: TYPE II, MEDIUM

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UTILIZATION TABLE

CO-EFFICIENT OF UTILIZATION

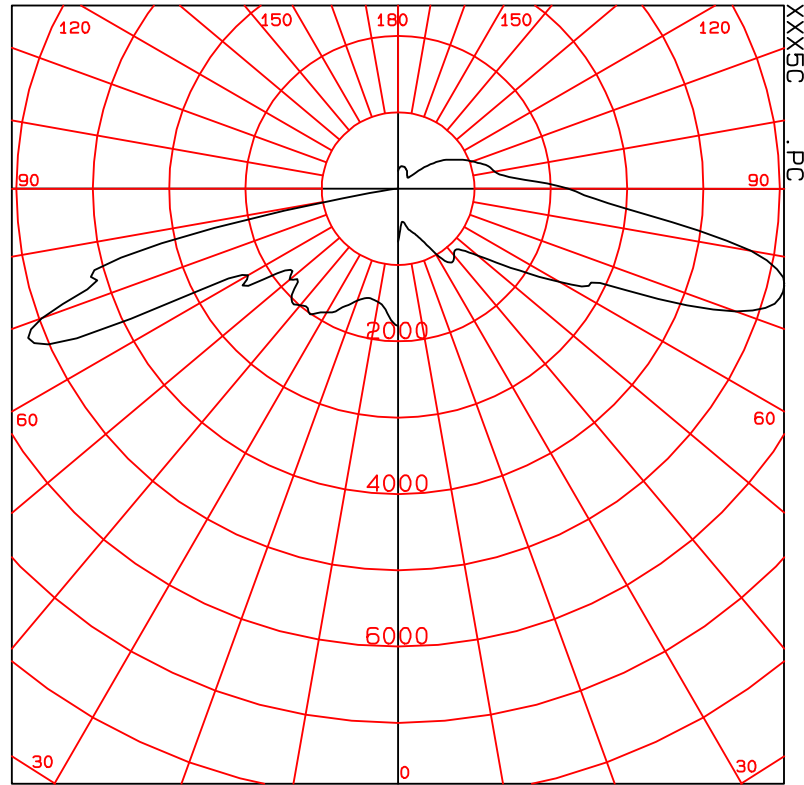
RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.215	.258	.473
1.0	.314	.446	.760
1.5	.351	.547	.897
2.0	.364	.590	.954
2.5	.370	.609	.979
3.0	.372	.616	.988
3.5	.373	.620	.993
4.0	.373	.622	.996
5.0	.374	.624	.998
TOTAL:	.375	.625	1.000
PERCENT:	37.5	62.5	100.0

EFFICACY = 75.0 LMS/WATT

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CANDLEPOWER  
IN MAX. PLANE

ANGLE	CANDLEPOWER
.0	1798
5.0	1635
10.0	1508
15.0	1483
20.0	1559
25.0	1716
30.0	1875
35.0	2011
40.0	1994
45.0	1969
50.0	1854
52.5	1751
55.0	1937
57.5	2397
60.0	2270
62.5	2706
65.0	4643
67.5	5218
70.0	4967
72.5	4155
75.0	4118
77.5	2854
80.0	742
82.5	161
85.0	24
87.5	0
90.0	0



CANDLEPOWER  
IN MAX. CONE

ANGLE	CANDLEPOWER
.0	697
5.0	466
15.0	558
25.0	746
35.0	1185
45.0	1125
55.0	1805
60.0	2448
62.5	2780
65.0	2918
67.5	3904
70.0	4705
72.5	5114
75.0	5218
77.5	5134
80.0	4692
82.5	3787
85.0	2985
87.5	2505
90.0	2227
95.0	1552
105.0	1189
115.0	898
125.0	609
135.0	224
145.0	210
155.0	264
165.0	296
175.0	281
180.0	233

MAXIMUM CANDLEPOWER: 5218  
 PLANE OF MAXIMUM: 75.0  
 VERTICAL ANGLE OF MAXIMUM: 67.5

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CANDLEPOWER SUMMARY

VERT. ANGLE	HORIZONTAL ANGLES - STREET SIDE										
	.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	
									*****		
.0	1798	1798	1798	1798	1798	1798	1798	1798	1798	1798	
5.0	1622	1604	1615	1638	1661	1655	1655	1649	1635	1617	
10.0	1505	1522	1535	1539	1556	1548	1537	1519	1508	1518	
15.0	1515	1533	1542	1567	1573	1526	1500	1463	1483	1477	
20.0	1508	1514	1565	1630	1619	1593	1543	1522	1559	1549	
25.0	1420	1417	1472	1551	1595	1575	1597	1710	1716	1706	
30.0	1251	1251	1370	1560	1694	1674	1819	1896	1875	1870	
35.0	1205	1231	1408	1627	1706	1690	1884	1905	2011	2174	
40.0	1242	1329	1559	1775	1772	1871	1942	1888	1994	2239	
45.0	1303	1340	1540	1801	1819	1918	1953	2390	1969	2042	
50.0	1210	1271	1475	1948	1681	1580	2032	2157	1854	1720	
55.0	1019	1061	1246	1887	1607	1847	1557	2576	1937	1844	
60.0	795	799	831	1201	1280	1631	1675	2185	2270	1940	
65.0	707	581	623	858	1202	1429	1849	2706	4643	3395	
67.5**	697	466	558	746	1185	1125	1805	2918	5218	2985	
70.0	797	370	477	660	914	1172	1695	2569	4967	3301	
75.0	267	94	125	192	436	746	930	2377	4118	3368	
80.0	79	8	10	25	85	133	209	549	742	814	
85.0	0	0	0	0	0	0	2	8	24	24	
90.0	0	0	0	0	0	0	0	0	0	0	
	HORIZONTAL ANGLES - HOUSE SIDE										
	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
.0	1798	1798	1798	1798	1798	1798	1798	1798	1798	1798	1798
5.0	1634	1615	1632	1630	1644	1649	1653	1682	1685	1685	1622
10.0	1518	1516	1514	1483	1487	1492	1507	1519	1490	1466	1412
15.0	1469	1474	1476	1462	1487	1514	1511	1435	1345	1321	1290
20.0	1539	1520	1551	1564	1650	1568	1540	1425	1296	1228	1195
25.0	1677	1656	1689	1690	1575	1409	1311	1272	1183	1162	1161
30.0	1842	1875	1913	1850	1584	1343	1184	1079	1123	1186	1210
35.0	2120	2037	1839	1775	1621	1366	1064	1044	1068	1042	997
40.0	2339	2129	1841	1800	1573	1230	1019	901	1014	973	949
45.0	2017	1954	1638	1502	1293	1024	882	772	837	849	785
50.0	1740	1709	1669	1445	1196	981	802	707	696	669	653
55.0	2011	2059	1588	1395	1156	906	756	636	604	581	568
60.0	1781	1605	1598	1276	926	781	681	548	487	502	475
65.0	2679	2019	1396	1036	710	331	366	405	381	381	326
67.5**	2227	1552	1189	898	609	224	210	264	296	281	233
70.0	2094	1506	680	409	312	171	134	161	191	197	165
75.0	2349	1441	331	155	127	83	74	84	88	95	65
80.0	459	488	113	64	51	44	39	30	27	13	1
85.0	20	13	7	0	0	26	3	3	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0	0

\*\* DENOTES VERTICAL ANGLE OF MAXIMUM CONE

\*\*\*\*\* DENOTES LATERAL ANGLE OF MAXIMUM PLANE

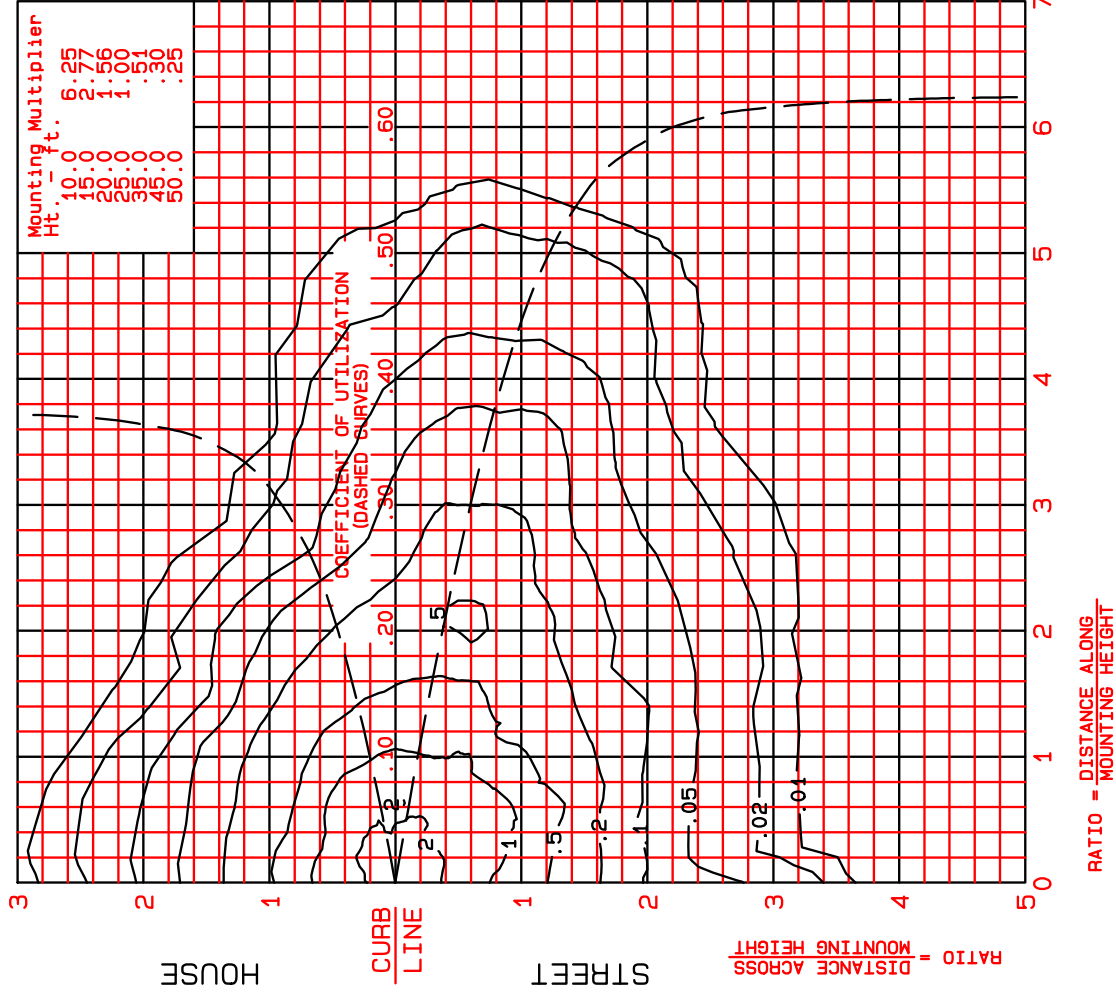
CANDLEPOWER WAS MEASURED IN 2.5 DEGREE STEPS - TABULATIONS ARE AVAILABLE

# ISOFOOTCANDLE

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 WITH SEGMENTED REFLECTOR AND FLAT GLASS LENS  
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 COMPANY ABC 120V LED DRIVER MODEL ABC1

MOUNTING HEIGHT FOR ISOFC 25.0 FEET



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\*\* FOOTCANDLE TABLE FOR SINGLE LUMINAIRE AT 25.0 FT. \*\*

LATERAL RATIOS	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
-3.00	.007	.007	.005	.004	.002	.002	.001	.001	.001	.001	.000	.000	.000	.000	.000
-2.50	.018	.019	.013	.007	.004	.003	.002	.002	.001	.001	.001	.000	.000	.000	.000
-2.00	.055	.053	.038	.016	.010	.007	.004	.003	.002	.001	.001	.001	.000	.000	.000
-1.50	.14	.13	.11	.044	.038	.016	.007	.005	.003	.002	.001	.001	.001	.001	.000
-1.00	.44	.34	.28	.16	.10	.038	.020	.010	.007	.006	.004	.003	.002	.001	.001
-.50	1.3	1.1	.65	.37	.19	.092	.053	.036	.024	.015	.009	.005	.003	.002	.001
HOUSE	CURB LINE														
STREET	2.8	1.9	1.1	.54	.34	.18	.11	.079	.044	.021	.011	.005	.003	.002	.001
.50	1.5	1.4	1.1	.63	.52	.36	.19	.12	.072	.038	.019	.009	.005	.002	.001
1.00	.73	.93	.57	.32	.28	.26	.17	.12	.070	.036	.018	.009	.005	.003	.002
1.50	.26	.29	.22	.17	.13	.10	.081	.074	.052	.030	.015	.006	.004	.002	.001
2.00	.097	.087	.095	.091	.069	.057	.036	.027	.022	.017	.010	.005	.003	.002	.001
2.50	.059	.038	.041	.041	.038	.028	.018	.011	.008	.007	.005	.003	.003	.001	.001
3.00	.037	.015	.015	.015	.014	.012	.009	.005	.004	.003	.002	.002	.001	.001	.000
3.50	.014	.005	.005	.004	.005	.005	.004	.003	.002	.002	.001	.001	.001	.001	.000
4.00	.007	.002	.002	.002	.002	.002	.002	.002	.001	.001	.001	.001	.000	.000	.000
4.50	.007	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000
5.00	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0

LONGITUDINAL MOUNTING HEIGHT RATIOS

CORRECTION FACTORS FOR OTHER MOUNTING HEIGHTS: SEE ISOFOOTCANDLE PAGE

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IESNA TM-15-11 LUMINAIRE CLASSIFICATION SYSTEM  
EVALUATION

FORWARD LIGHT			
Luminaire Lumens	4238		
% Lamp Lumens	62.5%		
FL (0 - 30)	9.8%	(	663)
FM (30 - 60)	29.7%	(	2015)
FH (60 - 80)	22.6%	(	1532)
FVH (80 - 90)	0.4%	(	29)
BACK LIGHT			
Luminaire Lumens	2543		
% Lamp Lumens	37.5%		
BL (0 - 30)	9.2%	(	621)
BM (30 - 60)	20.5%	(	1388)
BH (60 - 80)	7.7%	(	522)
BVH (80 - 90)	0.2%	(	12)
UPLIGHT			
Luminaire Lumens	0		
% Lamp Lumens	0.0%		
UL (90 - 100)	0.0%	(	0)
UH (100 - 180)	0.0%	(	0)
TRAPPED LIGHT			
Luminaire Lumens	0		
% Lamp Lumens	0.0%		
BUG Rating			
B	2		
U	0		
G	2		



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160 FROBISHER DRIVE, UNIT 5  
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AMBIENT TEMPERATURE: 25.0 °C

STABILIZATION TIME: 1 HOUR 30 MINUTES

THE LUMINAIRE WAS OPERATED IN THE ORIENTATION INDICATED BY THE LUMINAIRE DIAGRAM  
LSI MOVING MIRROR GONIOPHOTOMETER 6240T WAS USED

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS  
INPUT CURRENT: 0.757 ARMS  
INPUT WATTAGE: 90.4  
POWER FACTOR: 0.995