LIGHTING SCIENCES CANADA LTD.
160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
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CERTIFIED TEST REPORT NO. LSC E494

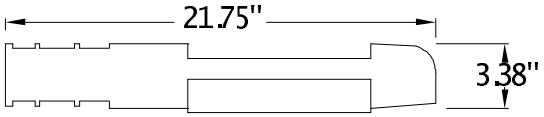
ENDURALITELED STREET LIGHT POLE MOUNT CAT. NO. EPL2X24W6K MOD
WITH INDIVIDUAL LED LENS OPTICS
48 WHITE LEDS. LUMEN OUTPUT = 2548 LMS.

IESNA CUTOFF CLASSIFICATION: CUTOFF

REPORT PREPARED FOR:

ENDURALITELED
MISSISSAUGA, ONTARIO

CERTIFIED BY:



DATE: AUG 12, 2010

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 RECOMMENDED PROCEDURES

LIGHTING SCIENCES CANADA LTD.

160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

TEST REPORT NO. E494

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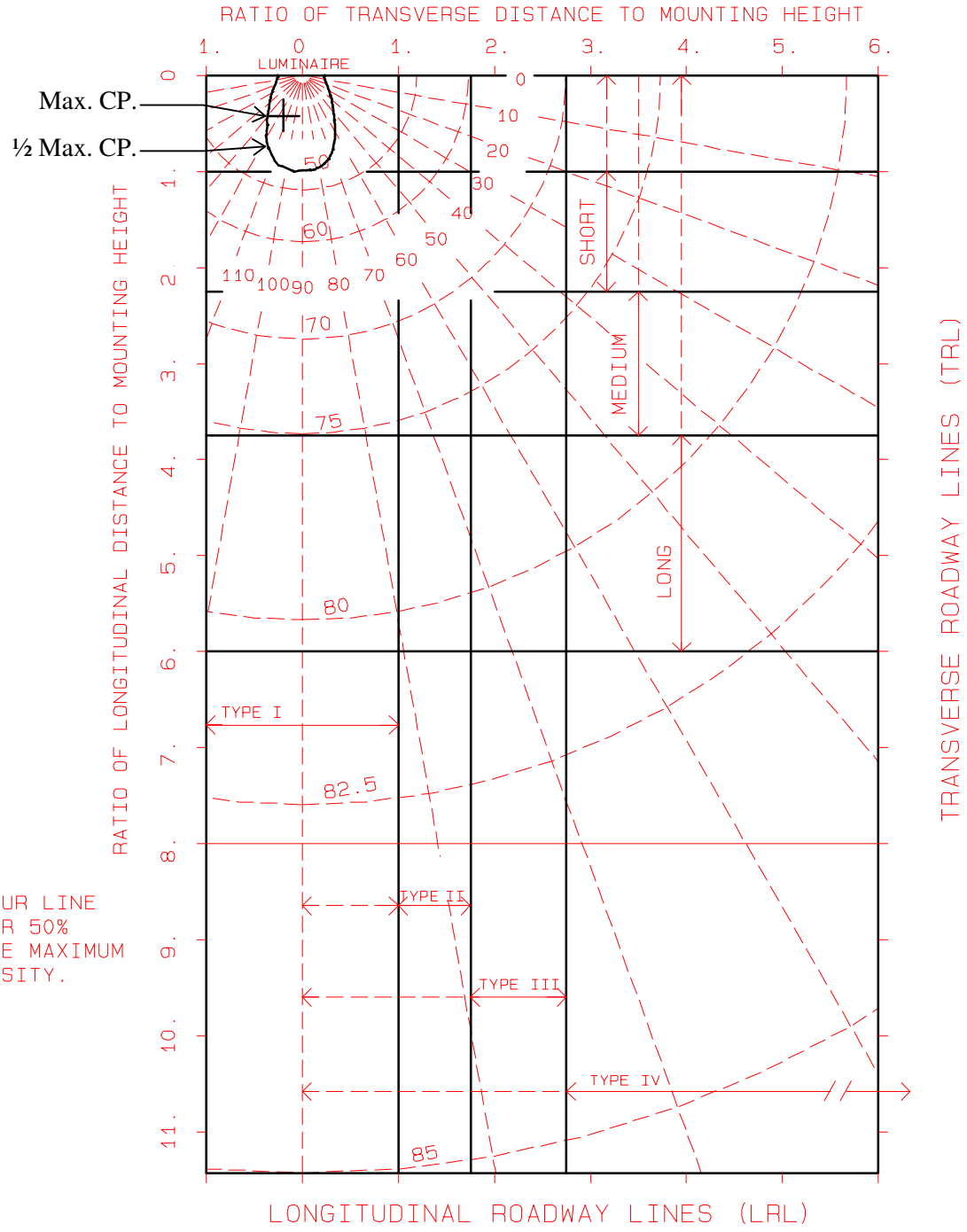

NOTE:
CONTOUR LINE
IS FOR 50%
OF THE MAXIMUM
INTENSITY.

IES CLASSIFICATION: TYPE I, VERY SHORT

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

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UTILIZATION TABLE

CO-EFFICIENT OF UTILIZATION

RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.437	.414	.850
1.0	.503	.471	.973
1.5	.511	.478	.988
2.0	.513	.480	.993
2.5	.514	.481	.995
3.0	.515	.481	.996
3.5	.515	.482	.997
4.0	.515	.482	.997
5.0	.515	.482	.997
TOTAL:	.516	.483	.999

PERCENTAGE OUTPUTS

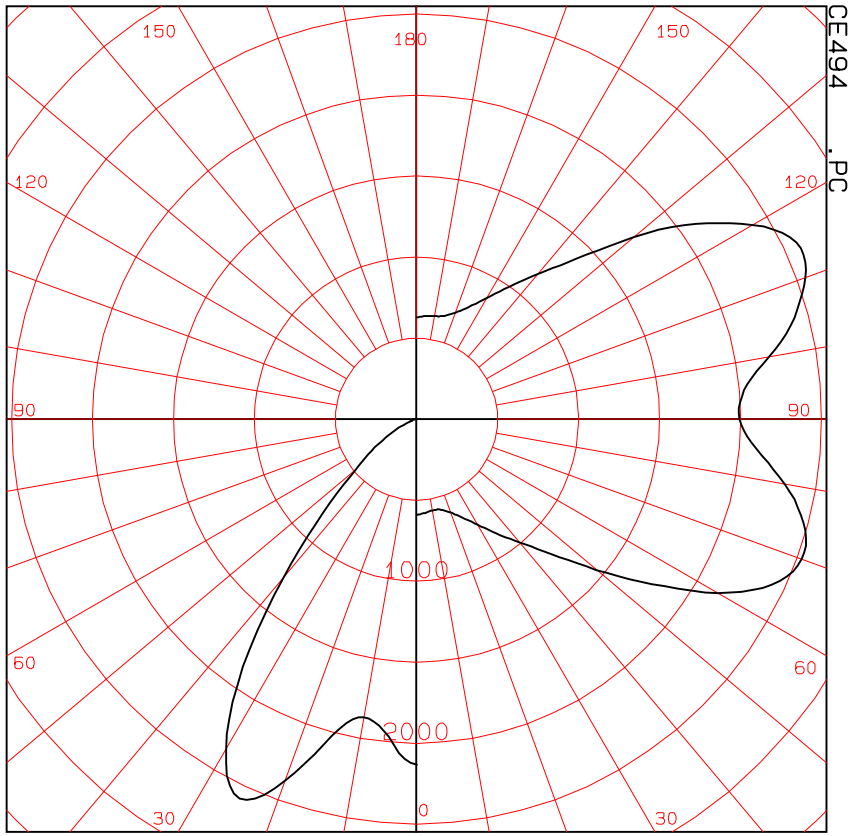
DOWNWARD:	STREET SIDE	=	48.3%
	HOUSE SIDE	=	51.6%
	TOTAL	=	99.9%
UPWARD:	STREET SIDE	=	.1%
	HOUSE SIDE	=	.1%
	TOTAL	=	.1%

EFFICACY = 45.3 LMS/WATT

CERTIFIED TEST REPORT NO. LSC E494

CANDLEPOWER
IN MAX. PLANE

ANGLE	CANDLEPOWER
.0	2132
5.0	1968
10.0	1870
15.0	2023
20.0	2373
25.0	2585
30.0	2351
35.0	1867
40.0	1284
45.0	819
50.0	499
52.5	413
55.0	342
57.5	264
60.0	198
62.5	149
65.0	102
67.5	66
70.0	46
72.5	36
75.0	30
77.5	24
80.0	19
82.5	16
85.0	14
87.5	10
90.0	8
95.0	5
105.0	0
115.0	0
125.0	0
135.0	0
145.0	0
155.0	0
165.0	0
175.0	0
180.0	0



MAXIMUM CANDLEPOWER: 2585

PLANE OF MAXIMUM: 115.0
VERTICAL ANGLE OF MAXIMUM: 25.0

CANDLEPOWER
IN MAX. CONE

ANGLE	CANDLEPOWER
.0	593
5.0	581
15.0	579
25.0	671
35.0	861
45.0	1178
55.0	1774
60.0	2145
62.5	2299
65.0	2417
67.5	2494
70.0	2528
72.5	2520
75.0	2472
77.5	2399
80.0	2307
82.5	2205
85.0	2108
87.5	2032
90.0	1992
95.0	2029
105.0	2413
115.0	2585
125.0	2103
135.0	1401
145.0	999
155.0	765
165.0	662
175.0	640
180.0	628

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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	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132
5.0	2014	2000	1995	1993	1987	1981	1972	1964	1955	1947
10.0	1608	1582	1640	1739	1841	1911	1928	1898	1845	1793
15.0	1127	1120	1215	1400	1658	1920	2076	2067	1953	1813
20.0	813	810	872	992	1241	1654	2143	2368	2227	1962
25.0**	593	581	579	671	861	1178	1774	2417	2472	2108
30.0	350	347	381	462	600	830	1312	2088	2297	1843
35.0	142	140	182	277	438	615	930	1615	1982	1606
40.0	80	79	91	128	256	438	657	1108	1598	1499
45.0	46	46	52	73	124	302	453	731	1115	1277
50.0	34	34	35	42	72	159	332	463	665	855
55.0	24	25	26	29	43	78	203	317	393	459
60.0	19	18	19	21	28	47	99	176	242	287
65.0	13	13	14	15	19	28	46	88	134	167
70.0	8	7	8	10	14	18	27	42	68	82
75.0	4	3	4	6	9	12	16	28	37	45
80.0	1	0	1	3	5	8	11	18	26	31
85.0	0	0	0	1	3	5	7	13	17	21
90.0	0	0	0	0	0	2	4	7	11	14

	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	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132	2132
5.0	1945	1948	1954	1968	1991	2017	2041	2062	2075	2081	2077
10.0	1778	1777	1807	1870	1925	1949	1924	1855	1792	1750	1714
15.0	1767	1762	1876	2023	2101	2040	1840	1584	1363	1246	1212
20.0	1885	1895	2134	2373	2331	1945	1472	1136	974	886	857
25.0**	1992	2029	2413	2585	2103	1401	999	765	662	640	628
30.0	1707	1775	2258	2351	1566	961	681	535	445	433	411
35.0	1478	1562	1992	1867	1084	691	508	349	251	188	170
40.0	1437	1495	1670	1284	745	498	328	175	113	98	94
45.0	1280	1306	1215	819	501	353	166	91	63	53	50
50.0	895	886	715	499	360	212	87	51	39	36	36
55.0	477	472	413	342	239	97	53	33	28	26	26
60.0	303	294	258	198	118	56	31	23	19	19	18
65.0	174	171	146	102	52	33	20	16	13	13	12
70.0	84	84	75	46	30	19	14	10	7	7	7
75.0	47	46	42	30	18	13	9	6	3	2	2
80.0	33	32	28	19	12	8	5	2	0	0	0
85.0	22	21	18	14	8	5	2	0	0	0	0
90.0	15	15	13	8	4	2	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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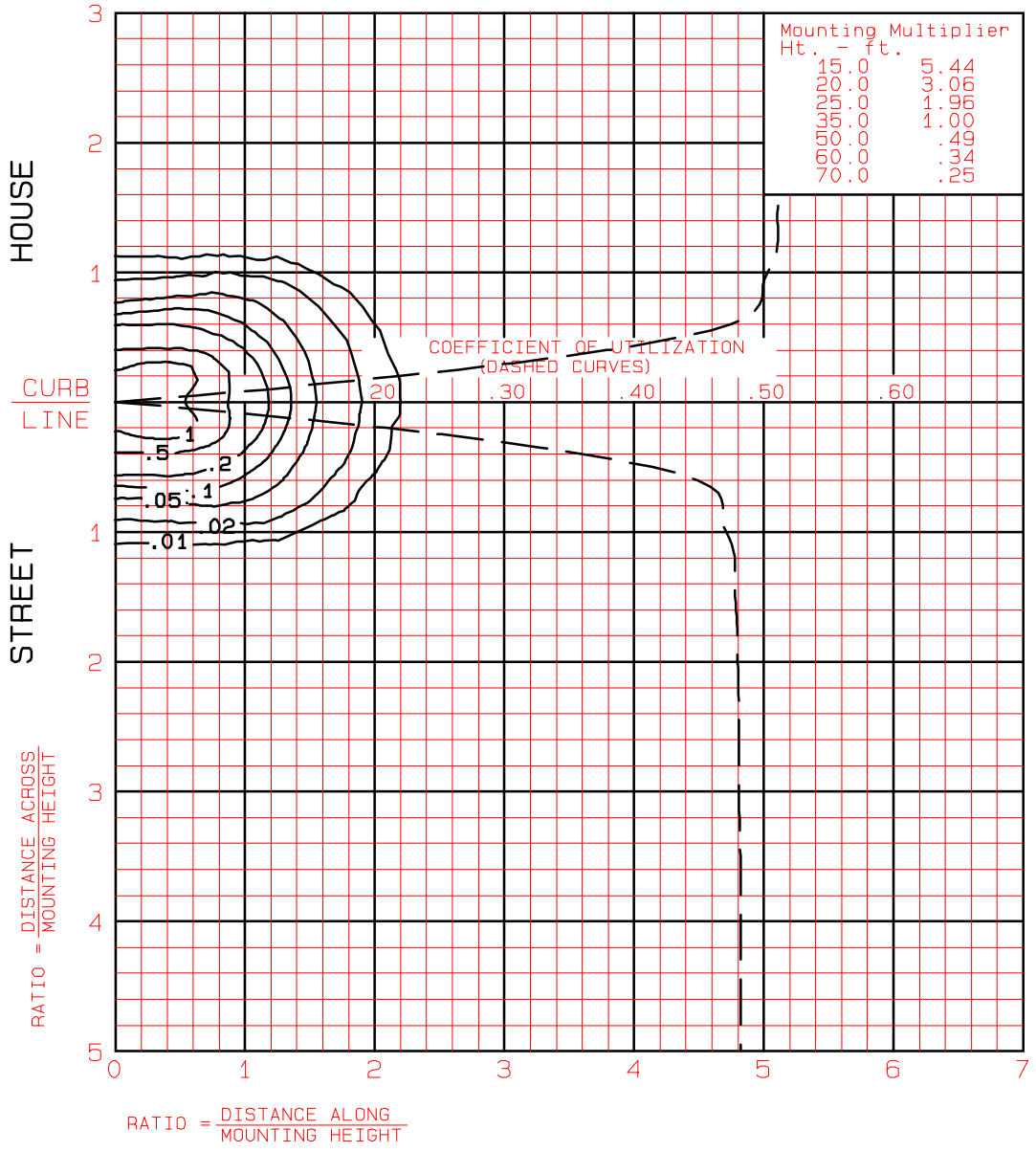
WITH INDIVIDUAL LED LENS OPTICS
48 WHITE LEDS. LUMEN OUTPUT = 2548 LMS.

MOUNTING HEIGHT FOR ISOFC 35.0 FEET



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** FOOTCANDLE TABLE FOR SINGLE LUMINAIRE AT 35.0 FT. **

LATERAL RATIOS															
-3.00	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
-2.50	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
-2.00	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
-1.50	.003	.003	.003	.002	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000
-1.00	.015	.017	.016	.010	.005	.002	.001	.001	.000	.000	.000	.000	.000	.000	.000
-.50	.33	.30	.13	.037	.011	.004	.002	.001	.000	.000	.000	.000	.000	.000	.000
HOUSE	CURB LINE														
STREET	1.7	1.1	.37	.058	.015	.005	.002	.001	.001	.000	.000	.000	.000	.000	.000
.50	.30	.26	.12	.034	.011	.004	.002	.001	.000	.000	.000	.000	.000	.000	.000
1.00	.014	.014	.013	.009	.004	.002	.001	.001	.000	.000	.000	.000	.000	.000	.000
1.50	.003	.003	.002	.002	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000
2.00	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
2.50	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3.00	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3.50	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
4.00	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
4.50	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
5.00	.000	.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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SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.473 ARMS
INPUT WATTAGE: 56.25
POWER FACTOR: 0.991

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.314
CIE 1931-y: 0.316
CORRELATED COLOUR TEMPERATURE: 6542 DEG. K
COLOUR RENDERING INDEX: 70.7%