

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com
REPORT NUMBER: ITL63762

DATE: 12/29/09

REVISED: 02/01/10

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PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: NS-LED-e23-NSP-12; AR-LED-TR-e23-NSP-12-C; AR-LED-RM-e23-NSP-12-C;
DS-LED-e23-NSP-12; RM-LED-e23-NSP-12-C; SN-LED-e23-NSP-12-C;
ST-LED-e23-NSP-12-C; SF-LED-e23-NSP-12-C; TF-LED-e23-NSP-12-C;
WS-LED-e23-NSP-12; AW-LED-e23-NSP-12; SW-LED-e23-NSP-12; VS-LED-e23-NSP-12;
VQ-LED-e23-NSP-12; GD-LED-e23-NSP-12; GQ-LED-e23-NSP-12; EC-LED-e23-NSP-12;
ED-LED-e23-NSP-12; SM-AR-LED-e23-NSP-12-C

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE CIRCUIT BOARD WITH 3 LEDS, ONE
CLEAR CONICAL PLASTIC OPTIC PER LED, MOLDED BLACK PLASTIC OPTIC MOUNTING
FRAME, CLEAR FLAT MICRO-PRISMATIC GLASS LENS IN MACHINED WHITE PAINTED
CYLINDRICAL METAL FRAME WITH UNFINISHED INTERIOR, LENS PRISMS IN.

LAMPS: THREE 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR
HEMISPHERICAL INTEGRAL PLASTIC LENS, LEDS AIMED AT THE HORIZON.

TOTAL INPUT WATTS = 8.2 AT 12.0 VOLTS

LED DRIVER: INTEGRAL

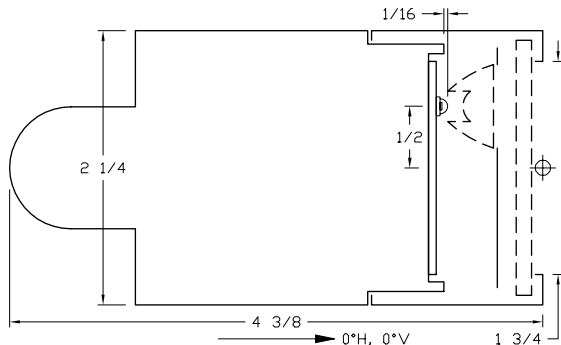
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC,
60Hz) TO THE LED DRIVER. LAMP INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

FLOODLIGHT CHARACTERISTICS

IES TYPE	3H X 3V	3594. AT 0.0 H, 0.0 V	AXIAL CANDLEPOWER
			DEG HORIZ. DEG VERT.
MAXIMUM CANDLEPOWER	3594. AT 0.0 H, 0.0 V		
HORIZONTAL BEAM ANGLE (50%)	17.6 deg		
VERTICAL BEAM ANGLE (50%)	14.1 deg		
HORIZONTAL FIELD ANGLE (10%)	33.0 deg		
VERTICAL FIELD ANGLE (10%)	31.4 deg		
BEAM LUMENS (% FIXTURE)	143. (39.1 %)	90.0	0. 90.0 0.
FIELD LUMENS (% FIXTURE)	301. (82.3 %)	85.0	0. 85.0 0.
TOTAL LUMENS (% FIXTURE)	365. (100.0 %)	75.0	0. 75.0 0.
EFFICACY = 44.5 Lm/W		65.0	1. 65.0 1.



Checked N WHITE

Approved R BEATTIE

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	0.	75.0	0.
65.0	1.	65.0	1.
55.0	3.	55.0	2.
47.5	4.	47.5	3.
42.5	6.	42.5	5.
37.5	9.	37.5	8.
33.0	13.	33.0	13.
29.0	20.	29.0	21.
25.5	31.	25.5	36.
22.5	56.	22.5	71.
19.5	140.	19.5	157.
17.0	303.	17.0	280.
15.0	527.	15.0	422.
13.0	859.	13.0	607.
11.0	1281.	11.0	866.
9.0	1746.	9.0	1258.
7.0	2253.	7.0	1759.
5.0	2779.	5.0	2382.
3.0	3252.	3.0	3014.
1.0	3552.	1.0	3513.
0.0	3594.	0.0	3594.
-1.0	3552.	-1.0	3552.
-3.0	3252.	-3.0	3146.
-5.0	2779.	-5.0	2503.
-7.0	2253.	-7.0	1853.
-9.0	1746.	-9.0	1301.
-11.0	1281.	-11.0	904.
-13.0	859.	-13.0	617.
-15.0	527.	-15.0	401.
-17.0	303.	-17.0	252.
-19.5	140.	-19.5	135.
-22.5	56.	-22.5	65.
-25.5	31.	-25.5	35.
-29.0	20.	-29.0	21.
-33.0	13.	-33.0	13.
-37.5	9.	-37.5	9.
-42.5	6.	-42.5	5.
-47.5	4.	-47.5	3.
-55.0	3.	-55.0	2.
-65.0	1.	-65.0	1.
-75.0	0.	-75.0	0.
-85.0	0.	-85.0	0.
-90.0	0.	-90.0	0.

ALL CANDELA AND LUMEN VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.

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CANDELA TABULATION

PAGE 2

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75.0	0.	0.	1.	0.	1.	1.	0.	1.	1.	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
65.0	1.	2.	1.	1.	2.	1.	1.	1.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.
55.0	2.	3.	2.	2.	3.	2.	2.	3.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.	0.
47.5	3.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	2.	2.	2.	1.	1.	0.	0.	0.	0.
42.5	5.	6.	5.	6.	6.	6.	6.	6.	5.	5.	5.	5.	4.	4.	3.	3.	2.	2.	1.	0.	0.	0.	0.
37.5	8.	9.	9.	9.	9.	9.	8.	8.	8.	7.	7.	6.	6.	5.	4.	4.	3.	2.	1.	0.	0.	0.	0.
33.0	13.	14.	13.	13.	13.	12.	11.	11.	11.	10.	10.	8.	7.	6.	5.	5.	3.	2.	2.	1.	0.	0.	0.
29.0	21.	21.	20.	20.	19.	18.	17.	16.	15.	13.	12.	11.	9.	8.	6.	5.	4.	3.	2.	1.	0.	0.	0.
25.5	36.	36.	35.	33.	30.	27.	24.	22.	20.	18.	16.	14.	11.	9.	7.	6.	4.	3.	2.	1.	0.	0.	0.
22.5	71.	71.	68.	62.	55.	46.	39.	33.	28.	23.	20.	16.	13.	11.	8.	6.	4.	3.	2.	1.	0.	0.	0.
19.5	157.	156.	145.	127.	105.	85.	67.	53.	41.	33.	25.	20.	16.	12.	9.	7.	5.	3.	2.	1.	0.	0.	0.
17.0	280.	278.	256.	224.	188.	149.	114.	83.	61.	45.	32.	23.	18.	14.	10.	7.	5.	4.	2.	1.	0.	0.	0.
15.0	422.	421.	392.	347.	290.	227.	174.	124.	86.	61.	40.	26.	20.	15.	11.	8.	6.	4.	2.	1.	0.	0.	0.
13.0	607.	604.	567.	505.	423.	336.	253.	178.	121.	80.	50.	31.	22.	16.	11.	8.	6.	4.	3.	1.	0.	0.	0.
11.0	866.	862.	805.	710.	601.	486.	368.	256.	168.	109.	63.	36.	24.	17.	12.	8.	6.	4.	3.	1.	0.	0.	0.
9.0	1258.	1235.	1136.	1001.	852.	682.	515.	359.	235.	149.	80.	41.	26.	18.	12.	8.	6.	4.	3.	1.	0.	0.	0.
7.0	1759.	1738.	1593.	1384.	1159.	927.	705.	489.	313.	189.	96.	47.	29.	19.	13.	9.	6.	4.	3.	1.	0.	0.	0.
5.0	2382.	2349.	2154.	1843.	1533.	1225.	916.	627.	392.	233.	115.	52.	30.	20.	13.	9.	7.	5.	3.	1.	0.	0.	0.
3.0	3014.	2985.	2756.	2356.	1934.	1519.	1127.	771.	477.	272.	132.	55.	30.	20.	13.	9.	6.	4.	3.	1.	0.	0.	0.
1.0	3513.	3471.	3188.	2723.	2210.	1712.	1264.	853.	524.	302.	139.	56.	31.	20.	13.	9.	6.	4.	3.	1.	0.	0.	0.
0.0	3594.	3552.	3252.	2779.	2253.	1746.	1281.	859.	527.	303.	140.	56.	31.	20.	13.	9.	6.	4.	3.	1.	0.	0.	0.
-1.0	3552.	3508.	3212.	2759.	2238.	1728.	1262.	849.	521.	296.	136.	56.	31.	20.	13.	9.	6.	4.	3.	1.	0.	0.	0.
-3.0	3146.	3119.	2854.	2450.	2015.	1566.	1139.	769.	467.	267.	124.	52.	30.	20.	13.	9.	6.	4.	3.	1.	0.	0.	0.
-5.0	2503.	2482.	2281.	1979.	1638.	1289.	935.	627.	387.	225.	107.	46.	28.	19.	13.	9.	6.	4.	3.	1.	0.	0.	0.
-7.0	1853.	1841.	1702.	1494.	1253.	989.	720.	484.	304.	179.	89.	42.	26.	18.	12.	8.	6.	4.	3.	2.	0.	0.	0.
-9.0	1301.	1291.	1204.	1078.	904.	716.	524.	352.	225.	136.	72.	37.	24.	17.	11.	8.	6.	4.	3.	2.	0.	0.	0.
-11.0	904.	896.	838.	745.	631.	495.	362.	246.	160.	99.	56.	33.	22.	16.	11.	8.	6.	4.	3.	2.	0.	0.	0.
-13.0	617.	609.	568.	503.	423.	328.	238.	166.	112.	73.	45.	28.	20.	15.	10.	7.	6.	4.	3.	2.	0.	0.	0.
-15.0	401.	395.	369.	327.	272.	210.	155.	110.	76.	53.	35.	24.	18.	14.	10.	7.	5.	4.	3.	1.	0.	0.	0.
-17.0	252.	248.	230.	203.	172.	134.	101.	73.	53.	40.	29.	21.	16.	12.	9.	7.	5.	4.	2.	1.	0.	0.	0.
-19.5	135.	134.	127.	112.	93.	76.	60.	46.	36.	29.	23.	18.	14.	11.	8.	6.	5.	3.	2.	1.	0.	0.	0.
-22.5	65.	64.	60.	55.	48.	41.	35.	30.	25.	22.	18.	15.	12.	10.	7.	6.	5.	3.	2.	1.	0.	0.	0.
-25.5	35.	35.	33.	31.	28.	26.	23.	21.	19.	17.	15.	13.	11.	9.	7.	5.	4.	3.	2.	1.	0.	0.	0.
-29.0	21.	21.	20.	20.	18.	18.	16.	15.	14.	13.	11.	10.	9.	7.	6.	5.	4.	3.	2.	1.	0.	0.	0.
-33.0	13.	13.	13.	13.	12.	12.	11.	11.	10.	10.	9.	8.	7.	6.	5.	4.	3.	3.	2.	1.	0.	0.	0.
-37.5	9.	9.	9.	9.	9.	9.	8.	8.	8.	7.	7.	6.	5.	5.	4.	4.	3.	2.	2.	1.	0.	0.	0.
-42.5	5.	6.	5.	6.	6.	6.	6.	6.	5.	5.	5.	4.	4.	4.	3.	3.	2.	2.	1.	1.	0.	0.	0.
-47.5	3.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	2.	2.	1.	1.	0.	0.	0.	0.
-55.0	2.	3.	3.	2.	2.	3.	2.	2.	3.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
-65.0	1.	2.	1.	1.	1.	1.	1.	1.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.
-75.0	0.	0.	1.	0.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

BEAM EDGE = 1797. CP = 50% OF MAX
FIELD EDGE = 359. CP = 10% OF MAX

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CANDELA TABULATION - FIELD ONLY

PAGE 3

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0																							
85.0																							
75.0																							
65.0																							
55.0																							
47.5																							
42.5																							
37.5																							
33.0																							
29.0																							
25.5																							
22.5																							
19.5																							
17.0																							
15.0	422.	421.	392.																				
13.0	607.	604.	567.	505.	423.																		
11.0	866.	862.	805.	710.	601.	486.	368.																
9.0	1258.	1235.	1136.	1001.	852.	682.	515.																
7.0	1759.	1738.	1593.	1384.	1159.	927.	705.	489.															
5.0	2382.	2349.	2154.	1843.	1533.	1225.	916.	627.	392.														
3.0	3014.	2985.	2756.	2356.	1934.	1519.	1127.	771.	477.														
1.0	3513.	3471.	3188.	2723.	2210.	1712.	1264.	853.	524.														
0.0	3594.	3552.	3252.	2779.	2253.	1746.	1281.	859.	527.														
-1.0	3552.	3508.	3212.	2759.	2238.	1728.	1262.	849.	521.														
-3.0	3146.	3119.	2854.	2450.	2015.	1566.	1139.	769.	467.														
-5.0	2503.	2482.	2281.	1979.	1638.	1289.	935.	627.	387.														
-7.0	1853.	1841.	1702.	1494.	1253.	989.	720.	484.															
-9.0	1301.	1291.	1204.	1078.	904.	716.	524.																
-11.0	904.	896.	838.	745.	631.	495.	362.																
-13.0	617.	609.	568.	503.	423.																		
-15.0	401.	395.	369.																				
-17.0																							
-19.5																							
-22.5																							
-25.5																							
-29.0																							
-33.0																							
-37.5																							
-42.5																							
-47.5																							
-55.0																							
-65.0																							
-75.0																							
-85.0																							
-90.0																							

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LUMEN TABULATION

PAGE 4

AVERAGE OF RIGHT AND LEFT SIDES

	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
31	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
27	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
21	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
18	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
16	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
14	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
12	1.1	1.0	0.9	0.7	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
10	1.5	1.4	1.2	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
8	2.1	1.9	1.7	1.4	1.1	0.8	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7
6	2.9	2.6	2.2	1.9	1.5	1.1	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
4	3.6	3.4	2.9	2.3	1.8	1.3	0.9	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7
2	4.2	3.9	3.3	2.7	2.1	1.5	1.0	0.6	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1
0	4.3	3.9	3.3	2.7	2.1	1.5	1.0	0.6	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.3
-2	3.8	3.5	3.0	2.4	1.9	1.4	0.9	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
-4	3.0	2.8	2.4	2.0	1.6	1.1	0.7	0.5	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
-6	2.2	2.1	1.8	1.5	1.2	0.9	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
-8	1.6	1.5	1.3	1.1	0.9	0.6	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
-10	1.1	1.0	0.9	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
-12	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
-14	0.5	0.4	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
-16	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
-18	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
-21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
-24	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
-27	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-90	35.8	32.9	28.5	23.6	18.6	13.7	9.5	6.1	3.8	3.1	1.7	1.2	1.2	0.8	0.7	0.5	0.3	0.4	0.1	0.0	0.0	0.0	182.6

LUMEN TOTAL THIS PAGE = 182.6



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REPORT NUMBER: ITL63762
PREPARED FOR: B-K LIGHTING, INC.

DATE: 12/29/09
REVISED: 02/01/10

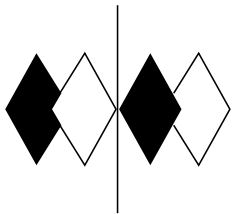
LUMEN TABULATION - FIELD ONLY

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AVERAGE OF RIGHT AND LEFT SIDES

0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90																						0.0
80																						0.0
70																						0.0
60																						0.0
50																						0.0
45																						0.0
40																						0.0
35																						0.0
31																						0.0
27																						0.0
24																						0.0
21																						0.0
18																						0.0
16																						0.0
14	0.5	0.5																				1.0
12	0.7	0.7	0.6	0.5																		2.6
10	1.1	1.0	0.9	0.7	0.6	0.4																4.6
8	1.5	1.4	1.2	1.0	0.8	0.6																6.6
6	2.1	1.9	1.7	1.4	1.1	0.8	0.6															9.7
4	2.9	2.6	2.2	1.9	1.5	1.1	0.7	0.5														13.3
2	3.6	3.4	2.9	2.3	1.8	1.3	0.9	0.6														16.8
0	4.2	3.9	3.3	2.7	2.1	1.5	1.0	0.6														19.3
-2	4.3	3.9	3.3	2.7	2.1	1.5	1.0	0.6														19.4
-4	3.8	3.5	3.0	2.4	1.9	1.4	0.9	0.5														17.4
-6	3.0	2.8	2.4	2.0	1.6	1.1	0.7	0.5														14.1
-8	2.2	2.1	1.8	1.5	1.2	0.9	0.6															10.3
-10	1.6	1.5	1.3	1.1	0.9	0.6																6.9
-12	1.1	1.0	0.9	0.8	0.6	0.4																4.8
-14	0.7	0.7	0.6	0.5																		2.6
-16	0.5	0.4																				0.9
-18																						0.0
-21																						0.0
-24																						0.0
-27																						0.0
-31																						0.0
-35																						0.0
-40																						0.0
-45																						0.0
-50																						0.0
-60																						0.0
-70																						0.0
-80																						0.0
-90																						0.0
	33.9	31.2	26.1	21.5	16.0	11.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.3

LUMEN TOTAL THIS PAGE = 150.3



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ISOCANDELA CURVES

PAGE 6

AVERAGE OF RIGHT AND LEFT SIDES

