

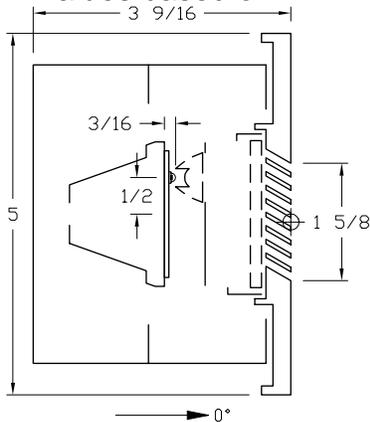
itl boulder
 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

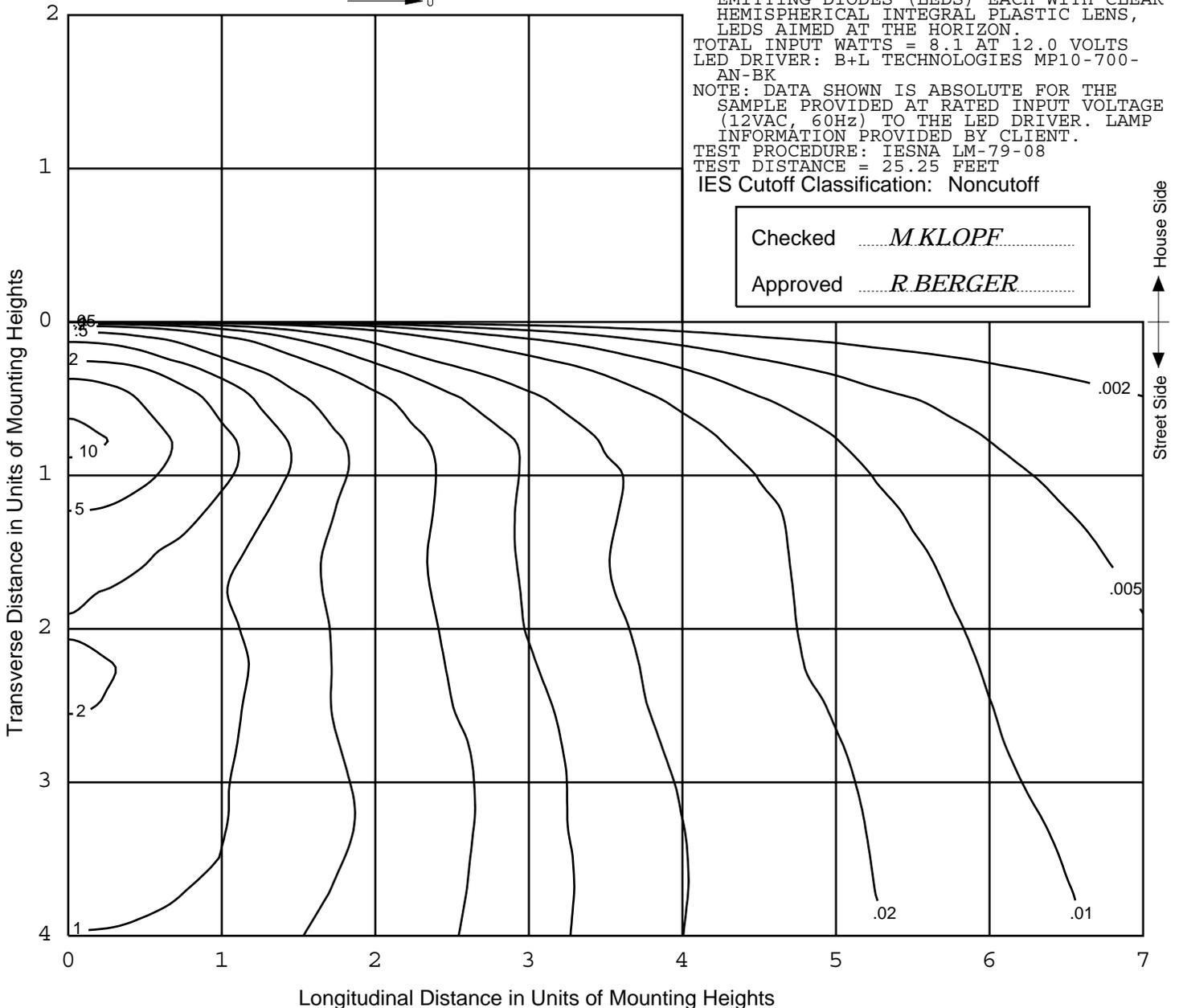
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

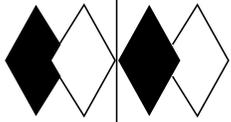
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 1 foot mounting height.



REPORT NUMBER: ITL64394
 DATE: 03/25/10
 PREPARED FOR: B-K LIGHTING, INC.
 CATALOG NUMBER: SSL-LED-e23-C-0-DEGREES (WIDE FLOOD)
 LUMINAIRE: CAST METAL WALL MOUNTING HOUSING, ONE ADJUSTABLE OPTICAL ASSEMBLY CONSISTING OF: MACHINED DIFFUSE METAL HEAT SINK, ONE CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME. FABRICATED DIFFUSE METAL LED MODULE MOUNTING BRACKETS, CAST BLACK PAINTED METAL OPTIC ASSEMBLY MOUNTING COLLAR, CLEAR FLAT LINEAR PRISMATIC GLASS LENS, CAST WHITE PAINTED LOUVERED METAL FACEPLATE, LENS PRISMS OUT AND VERTICAL.
 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 = 8.1 AT 12.0 VOLTS
 LED DRIVER: B+L TECHNOLOGIES MP10-700-AN-BK
 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
 IES Cutoff Classification: Noncutoff





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: ITL64394
 DATE: 03/25/10
 PREPARED FOR: B-K LIGHTING, INC.
 CATALOG NUMBER: SSL-LED-e23-C-0-DEGREES
 (WIDE FLOOD)

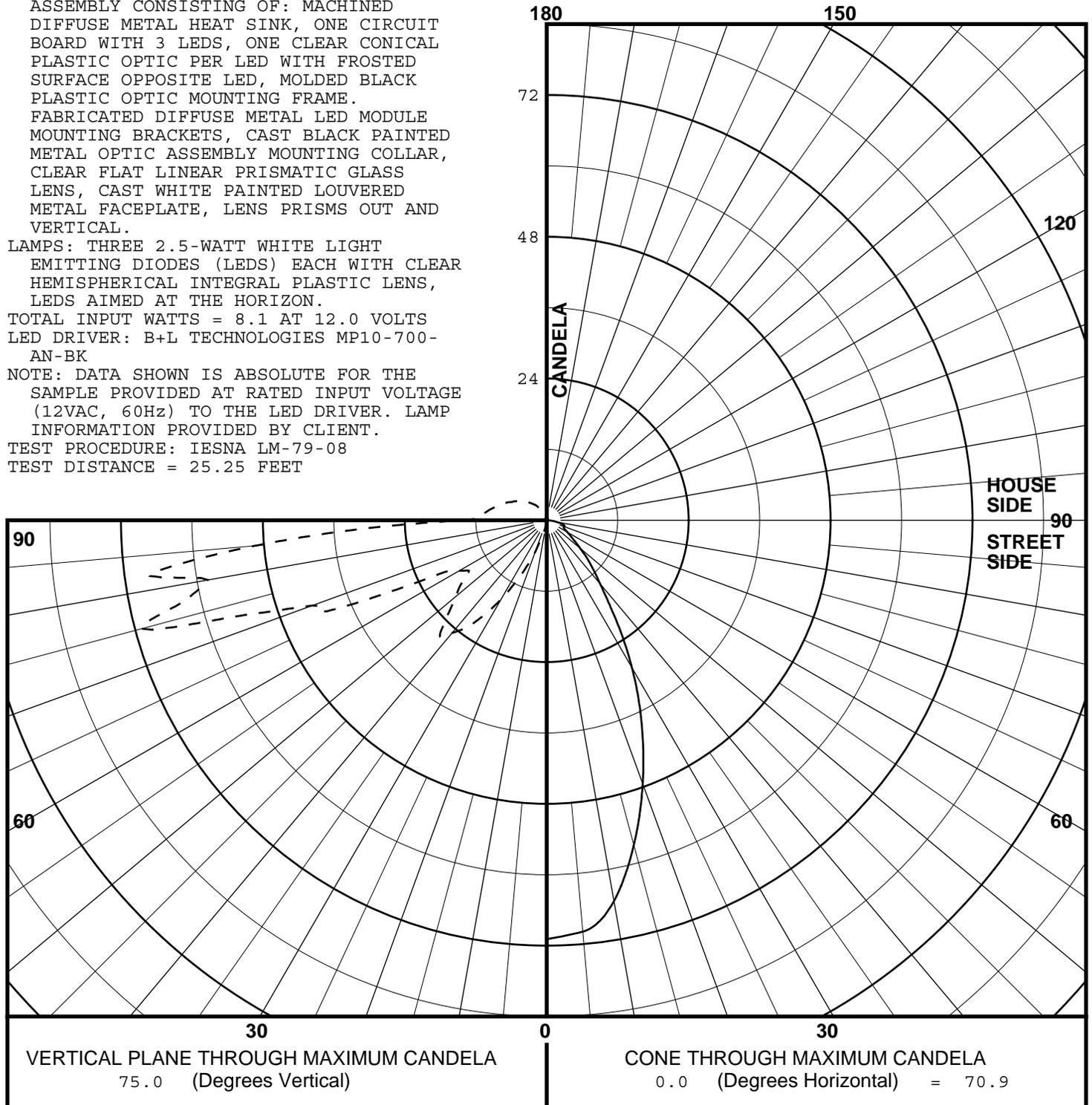
LUMINAIRE: CAST METAL WALL MOUNTING HOUSING, ONE ADJUSTABLE OPTICAL ASSEMBLY CONSISTING OF: MACHINED DIFFUSE METAL HEAT SINK, ONE CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME. FABRICATED DIFFUSE METAL LED MODULE MOUNTING BRACKETS, CAST BLACK PAINTED METAL OPTIC ASSEMBLY MOUNTING COLLAR, CLEAR FLAT LINEAR PRISMATIC GLASS LENS, CAST WHITE PAINTED LOUVERED METAL FACEPLATE, LENS PRISMS OUT AND VERTICAL.

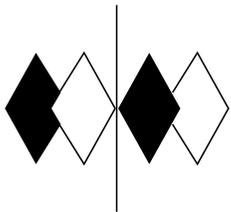
LAMPS: THREE 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL PLASTIC LENS, LEDS AIMED AT THE HORIZON.
 TOTAL INPUT WATTS = 8.1 AT 12.0 VOLTS
 LED DRIVER: B+L TECHNOLOGIES MP10-700-AN-BK

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

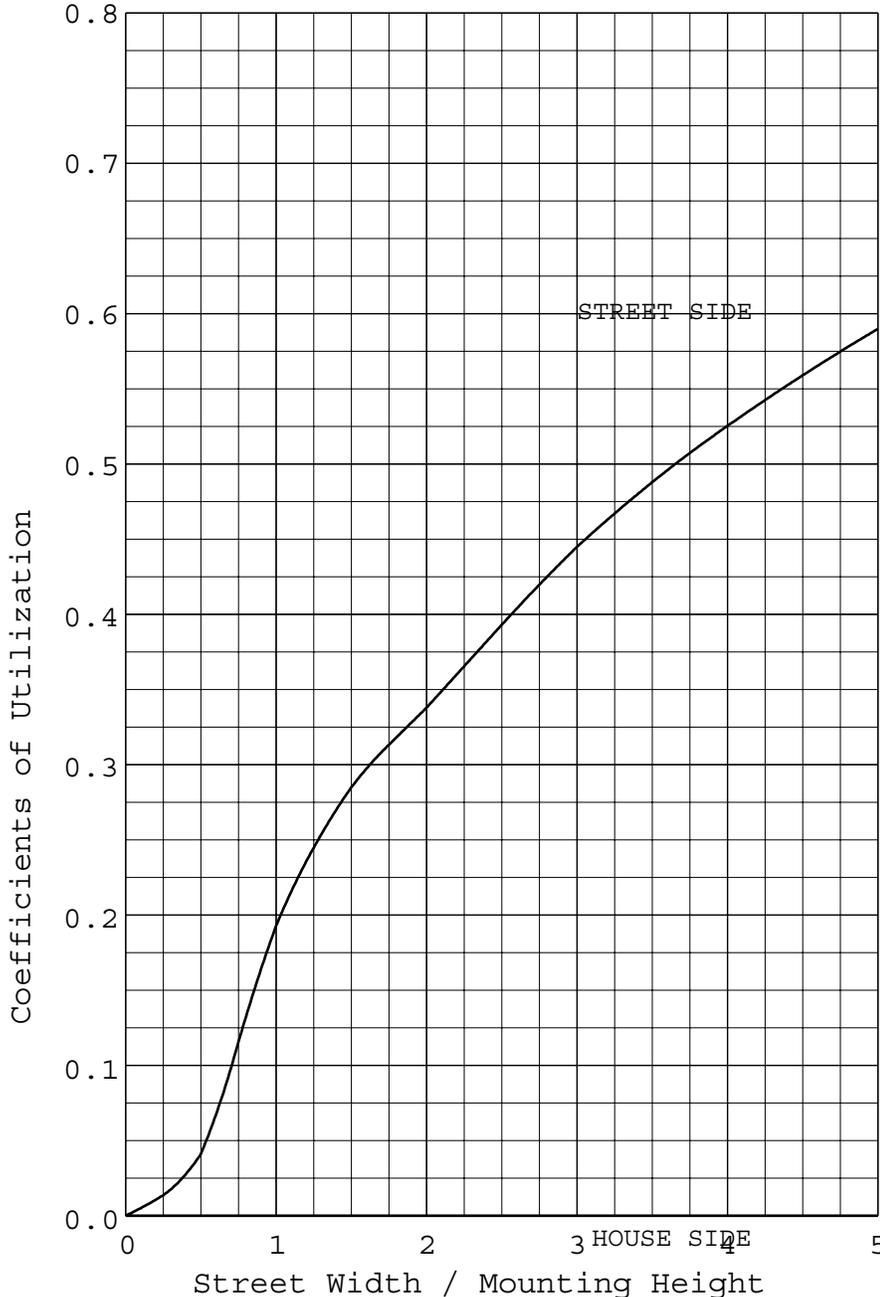
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





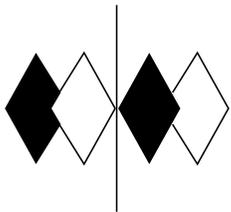
REPORT NUMBER: ITL64394
 DATE: 03/25/10
 PREPARED FOR: B-K LIGHTING, INC.

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	38.1	76.7
DOWNWARD HOUSE SIDE	0.0	0.0
DOWNWARD TOTAL	38.1	76.7
UPWARD STREET SIDE	11.6	23.3
UPWARD HOUSE SIDE	0.0	0.0
UPWARD TOTAL	11.6	23.3
TOTAL FLUX	49.7	100.0
EFFICACY = 6.1 Lm/W		

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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: ITL64394
 DATE: 03/25/10
 PREPARED FOR: B-K LIGHTING, INC.

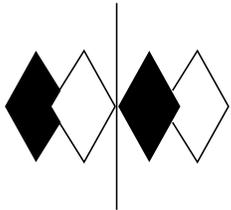
FLUX DISTRIBUTION BY SOLID ANGLE
 (PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION
 SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE
FORWARD LIGHT	38.1	76.7
FL (0- 30)		2.6
FM (30- 60)		24.3
FH (60- 80)		32.7
FVH(80- 90)		17.2
BACK LIGHT	0.0	0.0
BL (0- 30)		0.0
BM (30- 60)		0.0
BH (60- 80)		0.0
BVH(80- 90)		0.0
UPLIGHT	11.6	23.3
UL (90-100)		7.2
UH (100-180)		16.1
TRAPPED LIGHT	0.0	0.0
TOTAL FLUX	49.7	100.0

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
 (PER ADDENDUM A FOR IESNA TM-15-07)

BUG RATING: B0 U1 G0	FIRST DETERMINING SECONDARY SOLID ANGLE*	LUMENS
BACKLIGHT RATING: B0	BH	0.0
UPLIGHT RATING : U1	UH	8.0
GLARE RATING : G0	FVH	8.5

* NOTE: OTHER DETERMINING SOLID ANGLES MAY FALL INTO THIS SAME CATEGORY. ONLY THE FIRST DETERMINING ANGLES FROM THE TABLES A1-A3 IN THE ADDENDUM ARE SHOWN.



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: ITL64394
 PREPARED FOR: B-K LIGHTING, INC.

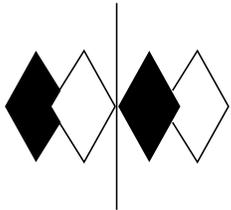
DATE: 03/25/10

CANDELA TABULATION

	STREET SIDE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.7	0.7	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.0
	1.7	1.7	1.7	1.5	1.3	1.0	0.7	0.4	0.1	0.0	0.0
	3.0	2.9	2.8	2.6	2.2	1.7	1.3	0.8	0.3	0.0	0.0
	4.3	4.2	4.1	3.7	3.2	2.6	1.9	1.2	0.5	0.0	0.0
	5.6	5.6	5.4	4.9	4.3	3.5	2.6	1.7	0.7	0.1	0.0
	7.2	7.1	6.9	6.3	5.5	4.6	3.5	2.3	1.0	0.1	0.0
	8.9	8.9	8.6	7.8	6.9	5.7	4.5	3.0	1.5	0.2	0.0
	10.9	10.9	10.5	9.5	8.3	7.0	5.6	4.0	2.2	0.4	0.0
	11.4	11.3	10.9	9.9	8.6	7.3	5.8	4.2	2.3	0.5	0.0
	14.4	14.2	13.1	11.2	9.2	7.4	5.7	4.0	2.3	0.6	0.0
	30.1	29.9	24.9	17.8	11.8	7.8	5.4	3.6	2.0	0.7	0.0
	49.5	48.6	39.6	26.3	15.6	8.9	5.4	3.4	1.9	0.8	0.0
V	82.5	66.9	64.4	51.9	33.4	18.2	9.6	5.7	3.3	1.9	0.9
E	80.0	58.2	56.6	46.4	30.4	17.2	9.5	5.5	3.1	2.1	0.9
R	77.5	62.6	63.0	51.4	34.6	19.4	10.5	5.3	3.0	2.5	0.8
T	75.0 <<	70.9	69.9	56.9	38.0	20.2	10.4	5.3	3.2	2.9	0.8
I	72.5	53.1	52.0	42.9	28.6	15.9	9.0	5.3	3.7	3.2	0.8
C	70.0	42.2	41.5	34.7	24.0	14.5	8.7	5.4	4.2	3.2	0.7
A	67.5	40.2	38.4	31.6	21.4	13.1	8.1	5.6	4.9	3.1	0.6
L	65.0	27.0	26.0	21.5	14.7	10.3	7.6	6.4	5.6	3.0	0.5
	62.5	18.4	18.0	15.6	12.5	9.8	8.2	7.2	5.7	2.9	0.5
A	60.0	17.1	17.0	15.3	12.7	10.5	9.0	8.0	5.7	2.7	0.4
N	57.5	15.8	15.8	14.7	12.8	11.5	10.3	8.9	5.5	2.6	0.3
G	55.0	16.9	16.8	15.8	14.3	13.1	11.6	8.9	5.3	2.4	0.3
L	52.5	18.6	18.6	17.7	15.8	14.7	13.0	8.8	5.0	2.3	0.2
E	50.0	20.1	20.0	19.2	17.5	16.4	12.9	8.5	4.7	2.1	0.2
	47.5	22.0	22.0	21.6	19.8	17.6	12.7	8.0	4.4	1.9	0.1
	45.0	24.4	24.5	23.9	21.7	16.7	12.0	7.5	4.0	1.7	0.1
	42.5	26.7	26.7	24.7	20.5	16.1	11.2	6.8	3.7	1.5	0.1
	40.0	24.9	24.7	23.0	19.5	14.8	10.2	6.2	3.3	1.3	0.0
	37.5	23.2	23.1	21.2	17.7	13.4	9.1	5.6	2.9	1.1	0.0
	35.0	20.9	20.7	18.9	15.8	12.0	8.1	5.0	2.5	0.9	0.0
	32.5	18.2	18.0	16.5	13.8	10.5	7.1	4.2	2.2	0.8	0.0
	30.0	15.4	15.2	14.0	11.6	8.9	6.0	3.5	1.8	0.6	0.0
	25.0	10.0	9.9	9.1	7.7	5.8	3.8	2.3	1.2	0.4	0.0
	20.0	5.6	5.5	5.0	4.1	3.0	2.2	1.4	0.7	0.1	0.0
	15.0	2.4	2.4	2.3	2.0	1.6	1.2	0.7	0.3	0.0	0.0
	10.0	0.9	0.9	0.9	0.7	0.6	0.4	0.2	0.0	0.0	0.0
	5.0	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

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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: ITL64394
 PREPARED FOR: B-K LIGHTING, INC.

DATE: 03/25/10

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE							
	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5	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
87.5	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
V 82.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E 80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R 77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T 75.0 <<	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I 72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L 65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N 57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L 52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CONE OF MAXIMUM CANDELA