

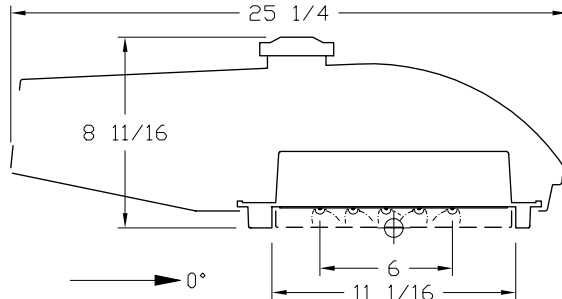


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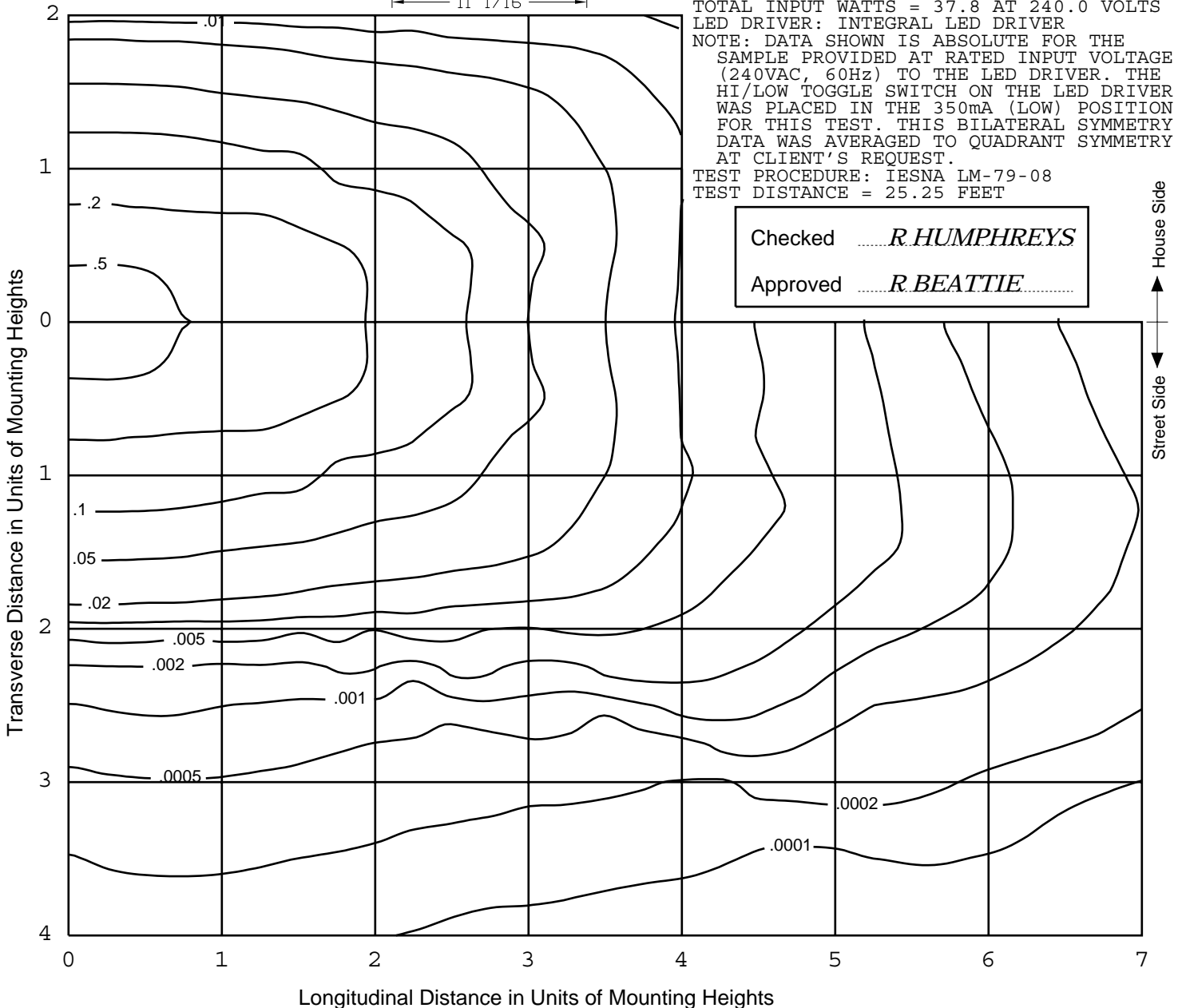
INDEPENDENT TESTING LABORATORIES, INC.
 3386 LONGHORN ROAD, BOULDER, CO 80302 USA

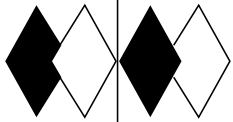
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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
 Values based on 25 foot mounting height.



REPORT NUMBER: ITL65039
 DATE: 06/07/10
 PREPARED FOR: ECOFIT LIGHTING
 CATALOG NUMBER: DURASTREET 30 SERIES,
 350mA, TYPE 5
 LUMINAIRE: CAST METAL HOUSING. ONE LED
 MODULE CONSISTING OF: CAST FINNED
 METAL HEAT SINK AND LED DRIVER
 HOUSING, ONE WHITE CIRCUIT BOARD WITH
 FIVE ROWS OF SIX LEDS, ONE CLEAR
 PLASTIC LENS BELOW EACH LED, FIVE
 MOLDED BLACK PLASTIC REFLECTORS WITH
 SPECULAR FINISH, CLEAR PLASTIC LENS.
 CAST GRAY PAINTED METAL DOOR FRAME.
 LED MODULE NOT DISASSEMBLED FOR
 INSPECTION.
 LAMPS: THIRTY WHITE LIGHT EMITTING
 DIODES (LEDS), VERTICAL BASE-UP
 POSITION.
 TOTAL INPUT WATTS = 37.8 AT 240.0 VOLTS
 LED DRIVER: INTEGRAL LED DRIVER
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED AT RATED INPUT VOLTAGE
 (240VAC, 60Hz) TO THE LED DRIVER. THE
 HI/LOW TOGGLE SWITCH ON THE LED DRIVER
 WAS PLACED IN THE 350mA (LOW) POSITION
 FOR THIS TEST. THIS BILATERAL SYMMETRY
 DATA WAS AVERAGED TO QUADRANT SYMMETRY
 AT CLIENT'S REQUEST.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 25.25 FEET





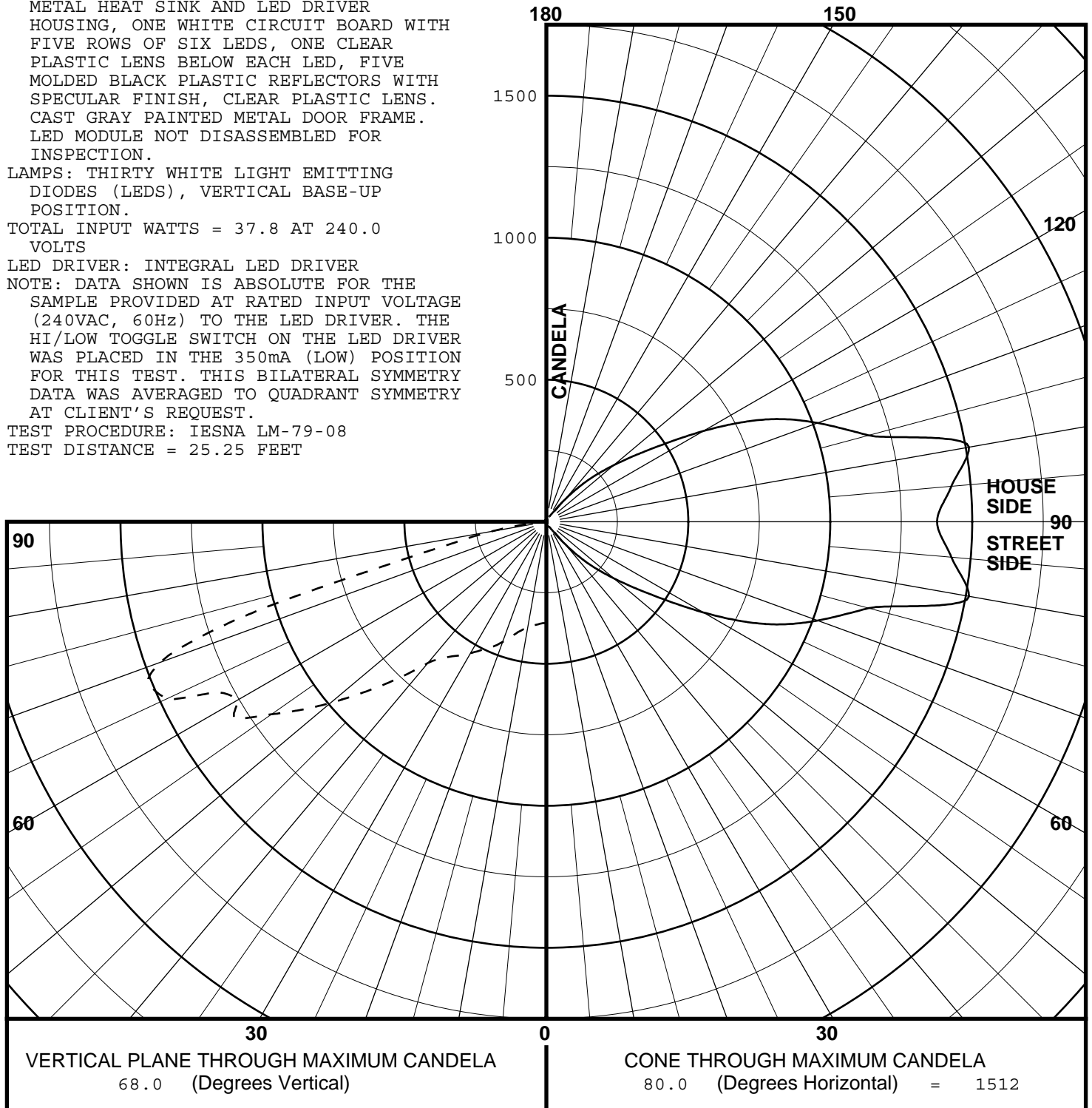
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REPORT NUMBER: ITL65039
 DATE: 06/07/10
 PREPARED FOR: ECOFIT LIGHTING
 CATALOG NUMBER: DURASTREET 30 SERIES,
 350mA, TYPE 5
 LUMINAIRE: CAST METAL HOUSING. ONE LED
 MODULE CONSISTING OF: CAST FINNED
 METAL HEAT SINK AND LED DRIVER
 HOUSING, ONE WHITE CIRCUIT BOARD WITH
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 SPECULAR FINISH, CLEAR PLASTIC LENS.
 CAST GRAY PAINTED METAL DOOR FRAME.
 LED MODULE NOT DISASSEMBLED FOR
 INSPECTION.
 LAMPS: THIRTY WHITE LIGHT EMITTING
 DIODES (LEDs), VERTICAL BASE-UP
 POSITION.
 TOTAL INPUT WATTS = 37.8 AT 240.0
 VOLTS
 LED DRIVER: INTEGRAL LED DRIVER
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED AT RATED INPUT VOLTAGE
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 HI/LOW TOGGLE SWITCH ON THE LED DRIVER
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 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 25.25 FEET

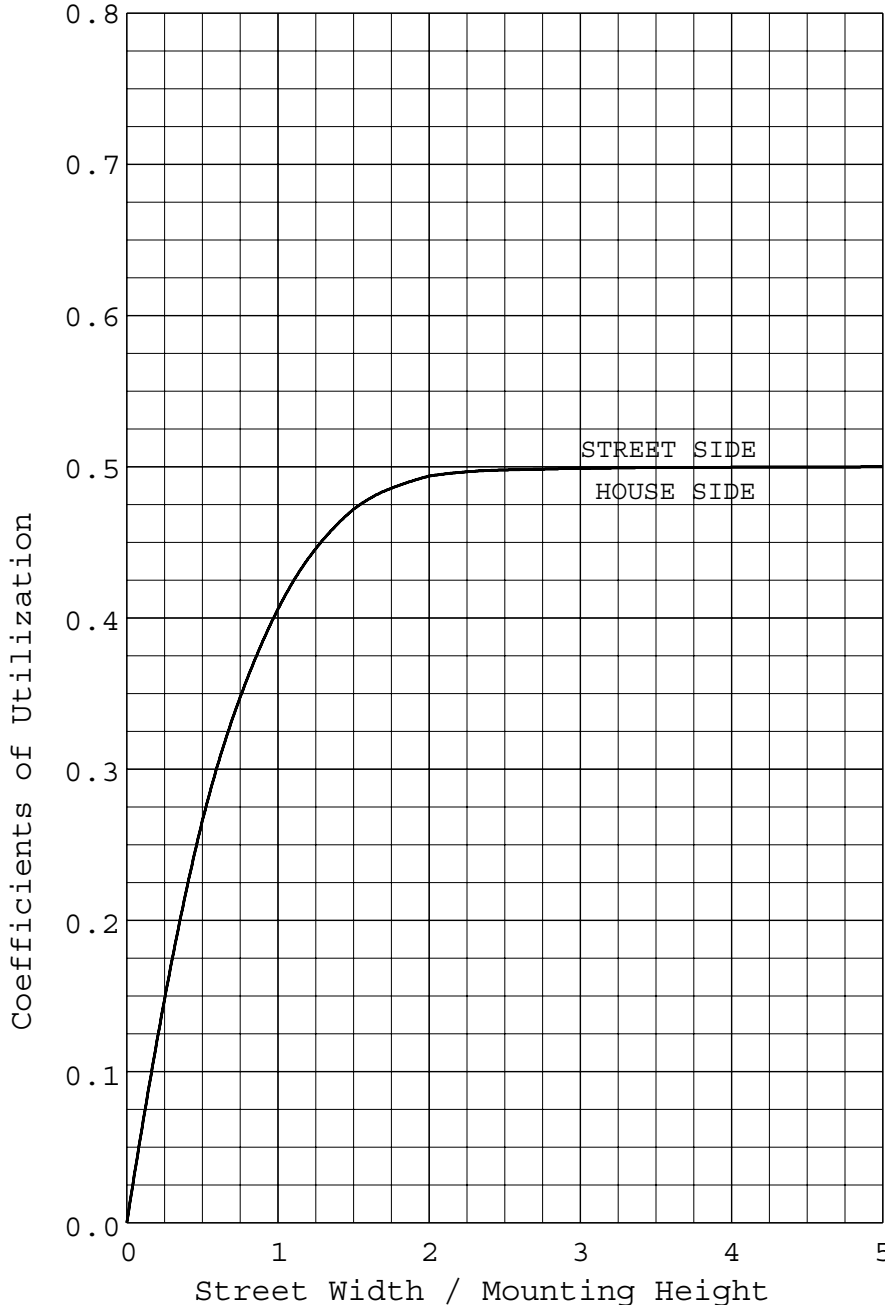
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





REPORT NUMBER: ITL65039
 DATE: 06/07/10
 PREPARED FOR: ECOFIT LIGHTING

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	1131.	50.0
DOWNWARD HOUSE SIDE	1131.	50.0
DOWNWARD TOTAL	2261.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	2262.	100.0
EFFICACY = 59.8 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.



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REPORT NUMBER: ITL65039
 DATE: 06/07/10
 PREPARED FOR: ECOFIT LIGHTING

FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-07, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	1131.	50.0	
FL (0- 30)	175.3	7.8	
FM (30- 60)	582.7	25.8	
FH (60- 80)	365.0	16.1	G0
FVH(80- 90)	7.8	0.3	U0 G0
BACK LIGHT	1131.	50.0	
BL (0- 30)	175.3	7.8	B1
BM (30- 60)	582.7	25.8	B1
BH (60- 80)	365.0	16.1	B1 G1
BVH(80- 90)	7.8	0.3	U0 G0
UPLIGHT	0.	0.0	
UL (90-100)	0.0	0.0	U0
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	2262.	100.0	

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

BUG RATING: B1 U0 G1



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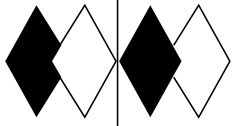
DATE: 06/07/10

CANDELA TABULATION

	STREET SIDE											LATERAL ANGLE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	80.0	85.0	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	80.0	85.0
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	1.	0.	1.	1.	1.	2.	2.	3.	6.	7.	87.5	1.	0.	1.	1.	1.	2.	2.	3.	6.	7.
	85.0	1.	1.	1.	2.	3.	3.	5.	8.	19.	24.	85.0	1.	1.	1.	2.	3.	3.	5.	8.	19.	24.
	82.5	2.	2.	2.	3.	4.	5.	8.	18.	73.	92.	82.5	2.	2.	2.	3.	4.	5.	8.	18.	73.	92.
	80.0	3.	3.	3.	4.	5.	8.	13.	72.	224.	198.	80.0	3.	3.	3.	4.	5.	8.	13.	72.	224.	198.
	77.5	4.	4.	5.	6.	7.	11.	21.	291.	445.	314.	77.5	4.	4.	5.	6.	7.	11.	21.	291.	445.	314.
	75.0	5.	6.	7.	8.	10.	15.	64.	530.	658.	557.	75.0	5.	6.	7.	8.	10.	15.	64.	530.	658.	557.
	72.5	7.	8.	10.	12.	15.	27.	225.	697.	847.	1147.	72.5	7.	8.	10.	12.	15.	27.	225.	697.	847.	1147.
	70.0	10.	11.	13.	15.	21.	102.	375.	828.	1030.	1448.	70.0	10.	11.	13.	15.	21.	102.	375.	828.	1030.	1448.
	68.0<<	12.	13.	16.	18.	38.	206.	442.	852.	1175.	1512.	68.0<<	12.	13.	16.	18.	38.	206.	442.	852.	1175.	1512.
	67.5	13.	14.	17.	21.	61.	249.	467.	823.	1242.	1510.	67.5	13.	14.	17.	21.	61.	249.	467.	823.	1242.	1510.
	65.0	19.	20.	26.	63.	184.	331.	535.	702.	1303.	1473.	65.0	19.	20.	26.	63.	184.	331.	535.	702.	1303.	1473.
	62.5	59.	63.	99.	172.	255.	374.	637.	646.	1168.	1301.	62.5	59.	63.	99.	172.	255.	374.	637.	646.	1168.	1301.
	60.0	153.	155.	183.	228.	292.	398.	628.	675.	1223.	1259.	60.0	153.	155.	183.	228.	292.	398.	628.	675.	1223.	1259.
V	57.5	191.	192.	212.	261.	324.	428.	556.	701.	1190.	1290.	57.5	191.	192.	212.	261.	324.	428.	556.	701.	1190.	1290.
E	55.0	221.	222.	244.	287.	343.	433.	485.	792.	1108.	1182.	55.0	221.	222.	244.	287.	343.	433.	485.	792.	1108.	1182.
R	52.5	242.	244.	259.	299.	365.	432.	455.	836.	1035.	1087.	52.5	242.	244.	259.	299.	365.	432.	455.	836.	1035.	1087.
T	50.0	255.	257.	275.	322.	367.	380.	450.	813.	959.	992.	50.0	255.	257.	275.	322.	367.	380.	450.	813.	959.	992.
I	47.5	274.	275.	289.	322.	354.	348.	503.	755.	880.	899.	47.5	274.	275.	289.	322.	354.	348.	503.	755.	880.	899.
C	45.0	279.	279.	292.	322.	315.	341.	563.	682.	808.	812.	45.0	279.	279.	292.	322.	315.	341.	563.	682.	808.	812.
A	42.5	288.	287.	287.	289.	304.	372.	576.	631.	715.	729.	42.5	288.	287.	287.	289.	304.	372.	576.	631.	715.	729.
L	40.0	260.	261.	261.	276.	306.	448.	558.	598.	642.	649.	40.0	260.	261.	261.	276.	306.	448.	558.	598.	642.	649.
	37.5	247.	249.	256.	276.	355.	494.	531.	571.	601.	609.	37.5	247.	249.	256.	276.	355.	494.	531.	571.	601.	609.
A	35.0	250.	251.	262.	315.	428.	496.	510.	546.	571.	578.	35.0	250.	251.	262.	315.	428.	496.	510.	546.	571.	578.
N	32.5	282.	287.	321.	390.	452.	479.	502.	528.	547.	557.	32.5	282.	287.	321.	390.	452.	479.	502.	528.	547.	557.
G	30.0	360.	362.	386.	416.	446.	459.	489.	515.	526.	534.	30.0	360.	362.	386.	416.	446.	459.	489.	515.	526.	534.
L	27.5	389.	389.	398.	412.	426.	449.	476.	498.	507.	512.	27.5	389.	389.	398.	412.	426.	449.	476.	498.	507.	512.
E	25.0	387.	387.	391.	397.	415.	440.	461.	479.	489.	491.	25.0	387.	387.	391.	397.	415.	440.	461.	479.	489.	491.
	22.5	378.	378.	381.	393.	410.	428.	449.	460.	472.	473.	22.5	378.	378.	381.	393.	410.	428.	449.	460.	472.	473.
	20.0	379.	378.	383.	390.	399.	416.	429.	440.	450.	450.	20.0	379.	378.	383.	390.	399.	416.	429.	440.	450.	450.
	17.5	378.	378.	380.	384.	394.	403.	412.	421.	428.	428.	17.5	378.	378.	380.	384.	394.	403.	412.	421.	428.	428.
	15.0	377.	378.	380.	383.	386.	389.	396.	404.	406.	406.	15.0	377.	378.	380.	383.	386.	389.	396.	404.	406.	406.
	12.5	374.	374.	375.	375.	377.	379.	384.	390.	389.	390.	12.5	374.	374.	375.	375.	377.	379.	384.	390.	389.	390.
	10.0	367.	367.	368.	370.	372.	374.	376.	377.	376.	377.	10.0	367.	367.	368.	370.	372.	374.	376.	377.	376.	377.
	7.5	365.	365.	366.	367.	369.	370.	369.	368.	368.	368.	7.5	365.	365.	366.	367.	369.	370.	369.	368.	368.	368.
	5.0	362.	362.	363.	364.	363.	363.	364.	363.	364.	363.	5.0	362.	362.	363.	364.	363.	363.	364.	363.	364.	363.
	2.5	358.	357.	357.	358.	358.	358.	359.	359.	359.	358.	2.5	358.	357.	357.	358.	358.	358.	359.	359.	359.	358.
	0.0	356.	356.	356.	356.	356.	356.	356.	356.	356.	356.	0.0	356.	356.	356.	356.	356.	356.	356.	356.	356.	356.

PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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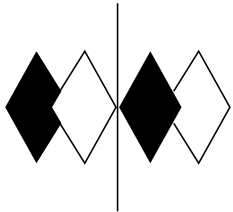
REPORT NUMBER: ITL65039
PREPARED FOR: ECOFIT LIGHTING

DATE: 06/07/10

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE									
	90.0	95.0	100.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	6.	7.	7.	6.	3.	2.	2.	1.	1.	1.	0.
	85.0	19.	21.	24.	19.	8.	5.	3.	3.	2.	1.	1.
	82.5	49.	60.	92.	73.	18.	8.	5.	4.	3.	2.	2.
	80.0	121.	153.	198.	224.	72.	13.	8.	5.	4.	3.	3.
	77.5	291.	327.	314.	445.	291.	21.	11.	7.	6.	5.	4.
	75.0	482.	500.	557.	658.	530.	64.	15.	10.	8.	7.	6.
	72.5	806.	874.	1147.	847.	697.	225.	27.	15.	12.	10.	8.
	70.0	1260.	1341.	1448.	1030.	828.	375.	102.	21.	15.	13.	11.
	68.0 <<	1376.	1432.	1512.	1175.	852.	442.	206.	38.	18.	16.	13.
	67.5	1395.	1458.	1510.	1242.	823.	467.	249.	61.	21.	17.	14.
	65.0	1388.	1420.	1473.	1303.	702.	535.	331.	184.	63.	26.	20.
	62.5	1276.	1265.	1301.	1168.	646.	637.	374.	255.	172.	99.	63.
	60.0	1184.	1184.	1259.	1223.	675.	628.	398.	292.	228.	183.	155.
V	57.5	1251.	1242.	1290.	1190.	701.	556.	428.	324.	261.	212.	192.
E	55.0	1175.	1168.	1182.	1108.	792.	485.	433.	343.	287.	244.	222.
R	52.5	1097.	1089.	1087.	1035.	836.	455.	432.	365.	299.	259.	244.
T	50.0	1012.	1001.	992.	959.	813.	450.	380.	367.	322.	275.	257.
I	47.5	918.	912.	899.	880.	755.	503.	348.	354.	322.	289.	275.
C	45.0	841.	834.	812.	808.	682.	563.	341.	315.	322.	292.	279.
A	42.5	752.	745.	729.	715.	631.	576.	372.	304.	289.	287.	287.
L	40.0	671.	664.	649.	642.	598.	558.	448.	306.	276.	261.	261.
	37.5	626.	622.	609.	601.	571.	531.	494.	355.	276.	256.	249.
A	35.0	591.	587.	578.	571.	546.	510.	496.	428.	315.	262.	251.
N	32.5	565.	561.	557.	547.	528.	502.	479.	452.	390.	321.	287.
G	30.0	537.	537.	534.	526.	515.	489.	459.	446.	416.	386.	362.
L	27.5	513.	513.	512.	507.	498.	476.	449.	426.	412.	398.	389.
E	25.0	491.	492.	491.	489.	479.	461.	440.	415.	397.	391.	387.
	22.5	470.	471.	473.	472.	460.	449.	428.	410.	393.	381.	378.
	20.0	448.	449.	450.	450.	440.	429.	416.	399.	390.	383.	378.
	17.5	427.	427.	428.	428.	421.	412.	403.	394.	384.	380.	378.
	15.0	405.	405.	406.	406.	404.	396.	389.	386.	383.	380.	378.
	12.5	389.	389.	390.	389.	390.	384.	379.	377.	375.	375.	374.
	10.0	376.	376.	377.	376.	377.	376.	374.	372.	370.	368.	367.
	7.5	366.	367.	368.	368.	368.	369.	370.	369.	367.	366.	365.
	5.0	363.	363.	363.	364.	363.	364.	363.	363.	364.	363.	362.
	2.5	358.	359.	358.	359.	359.	359.	358.	358.	358.	357.	357.
	0.0	356.	356.	356.	356.	356.	356.	356.	356.	356.	356.	356.

CONE OF MAXIMUM CANDELA



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REPORT NUMBER: ITL65039
 PREPARED FOR: ECOFIT LIGHTING

DATE: 06/07/10

CANDELA TABULATION

HOUSE SIDE	LATERAL ANGLE
180.0	
90.0	0.
87.5	1.
85.0	1.
82.5	2.
80.0	3.
77.5	4.
75.0	5.
72.5	7.
70.0	10.
68.0<<	12.
67.5	13.
65.0	19.
62.5	59.
60.0	153.
V 57.5	191.
E 55.0	221.
R 52.5	242.
T 50.0	255.
I 47.5	274.
C 45.0	279.
A 42.5	288.
L 40.0	260.
37.5	247.
A 35.0	250.
N 32.5	282.
G 30.0	360.
L 27.5	389.
E 25.0	387.
22.5	378.
20.0	379.
17.5	378.
15.0	377.
12.5	374.
10.0	367.
7.5	365.
5.0	362.
2.5	358.
0.0	356.

CONE OF MAXIMUM CANDELA