

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

PHONE: (303) 442-1255

FAX: (970) 535-3114

E-MAIL: itl@itlboulder.com

WEBSITE: www.itlboulder.com

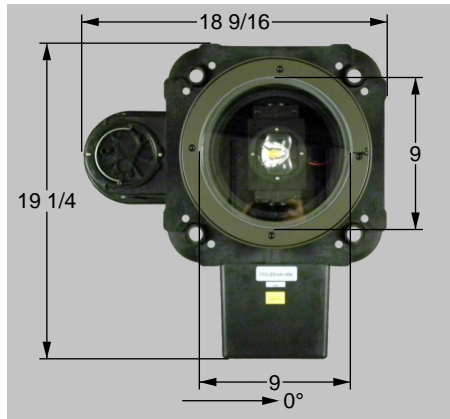
NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION ABOVE LUMINAIRE

Values based on a surface 10 feet above the luminaire.



REPORT NUMBER: ITL86693

ISSUE DATE: 02/10/16 PAGE: 1 OF 8

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: TY2-LED-x45-WW

LUMINAIRE: MOLDED BLACK PLASTIC EXTERIOR HOUSING, MACHINED METAL INTERIOR HOUSING WITH BLACK PAINTED GENERAL INTERIOR FINISH, 3-PIECE MACHINED BLACK FINISHED METAL CIRCUIT BOARD MOUNTING BASE, ONE WHITE CIRCUIT BOARD WITH 1 LED, CLEAR SILICONE DROP LENS, MOLDED BLACK PLASTIC LENS RETAINING FRAME, CLEAR FLAT GLASS LENS IN 2-PIECE CAST BROWN PAINTED METAL FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-DOWN POSITION. INPUT ELECTRICAL: 120.0 VOLTS, 34.4 WATTS, 0.290 AMPS

LED DRIVER: ELDOLED ECODERIVE 561/S, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

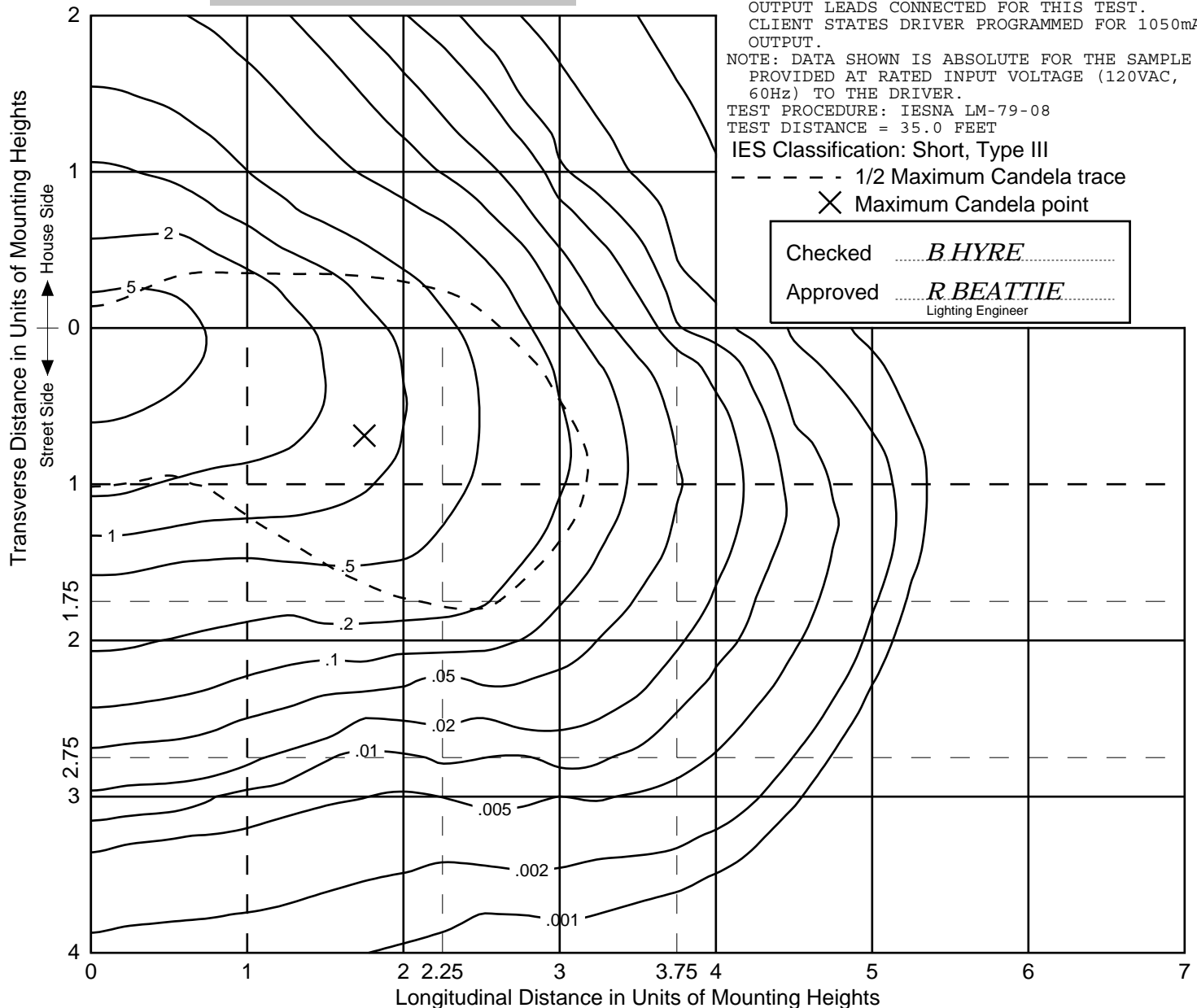
IES Classification: Short, Type III

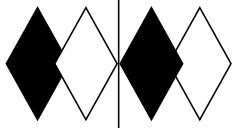
--- 1/2 Maximum Candela trace

X Maximum Candela point

Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer





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PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: TY2-LED-x45-WW

LUMINAIRE: MOLDED BLACK PLASTIC

EXTERIOR HOUSING, MACHINED METAL
INTERIOR HOUSING WITH BLACK PAINTED
GENERAL INTERIOR FINISH, 3-PIECE
MACHINED BLACK FINISHED METAL CIRCUIT
BOARD MOUNTING BASE, ONE WHITE CIRCUIT
BOARD WITH 1 LED, CLEAR SILICONE DROP
LENS, MOLDED BLACK PLASTIC LENS
RETAINING FRAME, CLEAR FLAT GLASS LENS
IN 2-PIECE CAST BROWN PAINTED METAL
FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT
EMITTING DIODE (LED), VERTICAL BASE-
DOWN POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 34.4
WATTS, 0.290 AMPS

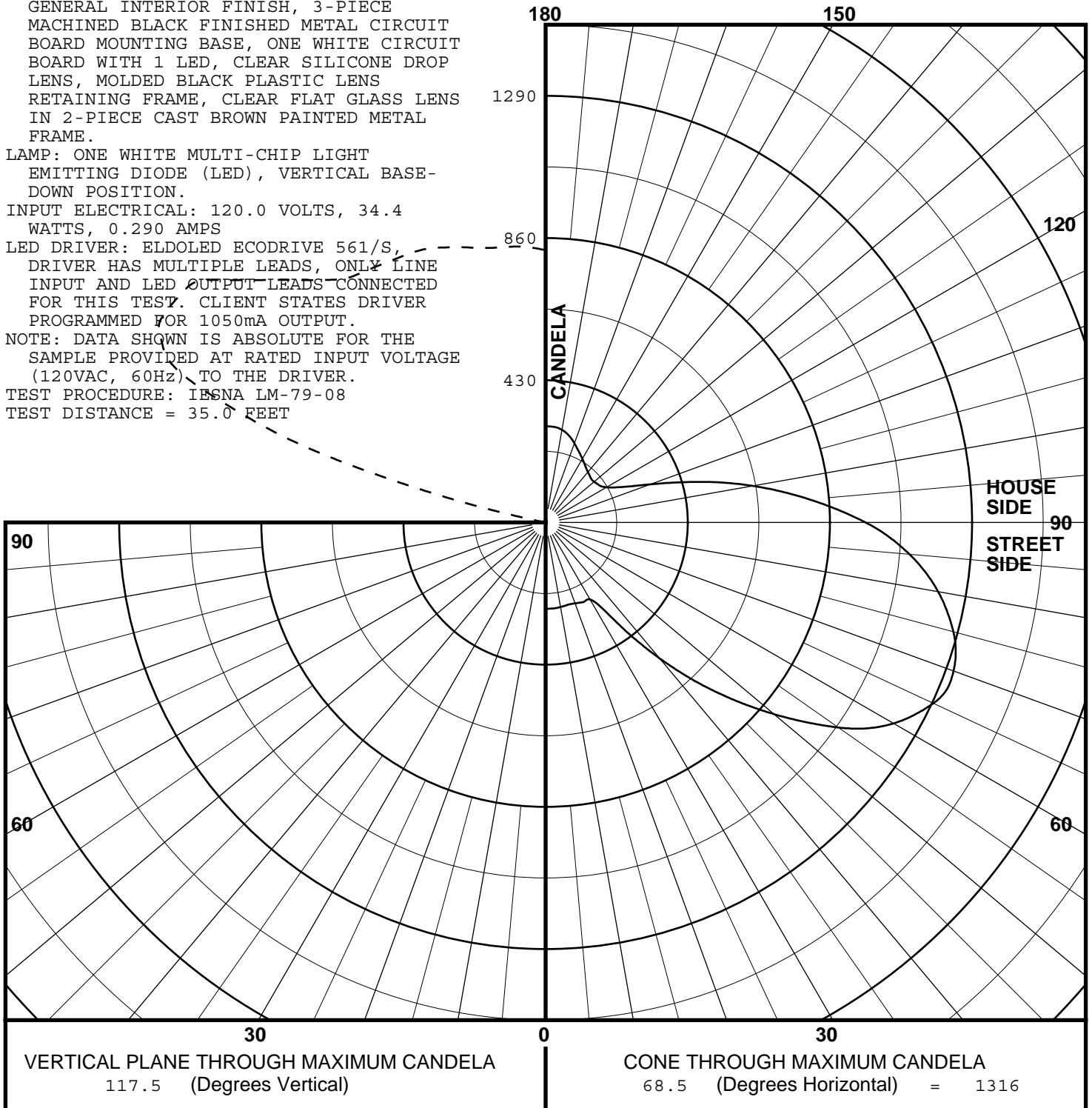
LED DRIVER: ELDOLED ECODRIVE 561/S,
DRIVER HAS MULTIPLE LEADS, ONLY ONE LINE
INPUT AND LED OUTPUT LEADS CONNECTED
FOR THIS TEST. CLIENT STATES DRIVER
PROGRAMMED FOR 1050mA OUTPUT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

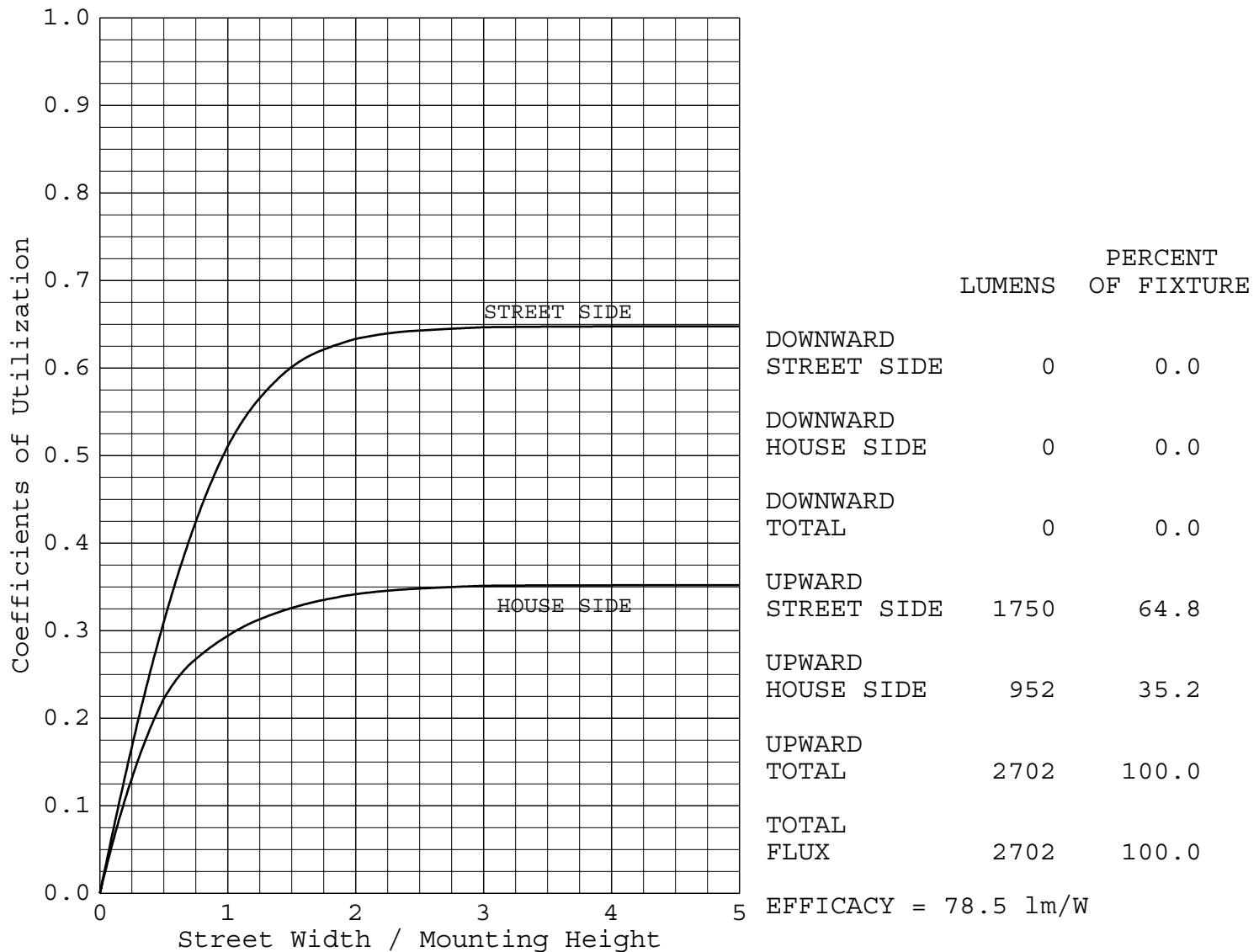




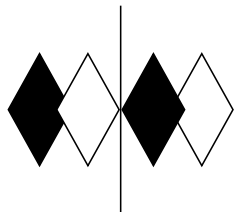
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ISSUE DATE: 02/10/16
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PAGE: 3 OF 8

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



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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PAGE: 4 OF 8

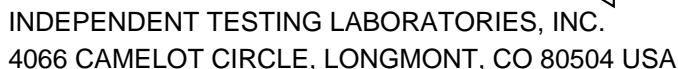
FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	0.	0.0	
FL (0- 30)	0.0	0.0	
FM (30- 60)	0.0	0.0	
FH (60- 80)	0.0	0.0	G0
FVH(80- 90)	0.0	0.0	G0
BACK LIGHT	0.	0.0	
BL (0- 30)	0.0	0.0	B0
BM (30- 60)	0.0	0.0	B0
BH (60- 80)	0.0	0.0	B0 G0
BVH(80- 90)	0.0	0.0	G0
UPLIGHT	2702.	100.0	
UL (90-100)	1.1	0.0	U1
UH (100-180)	2701.2	100.0	U5
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	2702.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B0 U5 G0

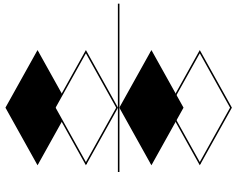


PAGE: 5 OF 8

STREET	SIDE	LATERAL ANGLE										
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	68.5	75.0	85.0

[illegible]

CONE OF MAXIMUM CANDELA



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PAGE: 6 OF 8

CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE									
	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0	
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	95.0	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	
	97.5	3.	3.	3.	3.	2.	1.	1.	1.	1.	1.	
	100.0	5.	5.	5.	5.	4.	3.	3.	2.	2.	3.	
	102.5	16.	14.	11.	10.	10.	7.	6.	5.	5.	5.	
	105.0	63.	31.	22.	18.	17.	14.	12.	10.	9.	9.	
	107.5	283.	157.	41.	31.	27.	24.	22.	21.	20.	20.	19.
	110.0	578.	435.	207.	100.	77.	65.	70.	83.	109.	124.	110.
	112.5	799.	641.	338.	178.	145.	144.	160.	190.	232.	254.	254.
	115.0	908.	736.	408.	215.	172.	169.	186.	216.	256.	277.	278.
	117.5<<	968.	801.	474.	253.	197.	192.	209.	237.	272.	290.	291.
V	118.0	975.	810.	486.	259.	203.	197.	213.	241.	275.	293.	294.
E	120.0	996.	850.	532.	287.	225.	215.	231.	255.	284.	301.	301.
R	122.5	1017.	884.	583.	322.	254.	238.	253.	270.	292.	307.	309.
T	125.0	1030.	911.	629.	358.	286.	260.	273.	283.	298.	311.	312.
I	127.5	1039.	932.	671.	396.	318.	281.	288.	290.	300.	309.	310.
C	130.0	1045.	950.	709.	439.	352.	303.	302.	297.	302.	307.	307.
A	132.5	1039.	962.	747.	486.	388.	327.	310.	302.	303.	305.	306.
L	135.0	1010.	961.	786.	539.	426.	354.	319.	306.	303.	305.	306.
	137.5	980.	948.	811.	595.	470.	387.	330.	311.	303.	304.	305.
A	140.0	960.	939.	826.	645.	508.	411.	337.	313.	303.	302.	303.
N	142.5	946.	928.	836.	679.	538.	433.	336.	312.	302.	299.	299.
G	145.0	933.	918.	837.	708.	564.	462.	346.	313.	301.	298.	298.
L	147.5	923.	904.	832.	726.	592.	489.	369.	316.	303.	299.	299.
E	150.0	913.	893.	827.	737.	626.	509.	399.	324.	305.	300.	299.
	152.5	901.	880.	823.	747.	653.	524.	435.	353.	310.	303.	303.
	155.0	888.	869.	817.	752.	668.	547.	462.	388.	338.	312.	312.
	157.5	878.	860.	812.	753.	673.	584.	481.	424.	371.	347.	342.
	160.0	866.	851.	808.	754.	683.	610.	518.	449.	412.	389.	384.
	162.5	852.	839.	804.	756.	702.	630.	565.	498.	452.	432.	428.
	165.0	839.	826.	802.	760.	713.	661.	603.	558.	516.	488.	483.
	167.5	828.	815.	796.	769.	724.	694.	647.	612.	586.	572.	568.
	170.0	823.	811.	793.	780.	749.	720.	695.	666.	638.	624.	621.
	172.5	822.	813.	797.	783.	770.	754.	738.	724.	713.	703.	699.
	175.0	822.	817.	805.	795.	783.	771.	757.	745.	738.	734.	732.
	177.5	824.	822.	817.	813.	808.	802.	794.	783.	774.	770.	767.
	180.0	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.	823.

CONE OF MAXIMUM CANDELA



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PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

90- 95	0.
95-100	1.
100-105	19.
105-110	100.
110-115	217.
115-120	258.
120-125	270.
125-130	272.
130-135	263.
135-140	247.
140-145	227.
145-150	205.
150-155	180.
155-160	153.
160-165	123.
165-170	92.
170-175	57.
175-180	19.

10-DEGREE
ZONAL LUMEN SUMMARY

0- 90	0.
0-100	1.
0-110	120.
0-120	594.
0-130	1136.
0-140	1645.
0-150	2078.
0-160	2411.
0-170	2626.
0-180	2702.



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ADDRESS: 40429 BRICKYARD DRIVE
MADERA, CA 93636-9515

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