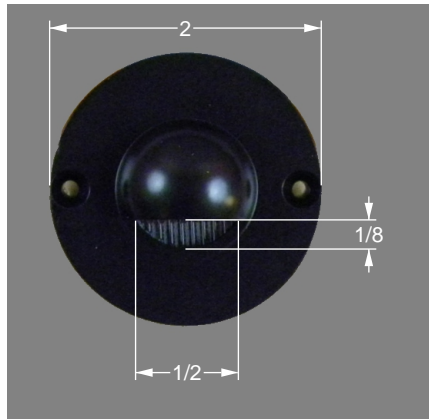


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 1 foot mounting height.



REPORT NUMBER: ITL86659

ISSUE DATE: 02/26/16

PAGE: 1 OF 8

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: CM-LED-e72

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE BLACK CIRCUIT BOARD WITH ONE LED, CLEAR PLASTIC OPTIC IN MOLDED WHITE PLASTIC FRAME, CLEAR FLAT LINEAR PRISMATIC GLASS LENS, MACHINED CYLINDRICAL BLACK PAINTED METAL FACEPLATE, LENS PRISMS OUT AND VERTICAL.

LAMP: ONE WHITE LIGHT EMITTING DIODE (LED), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 2.40
WATTS, 0.312 AMPS

LED DRIVER: B-K LIGHTING 518801/400187-F

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

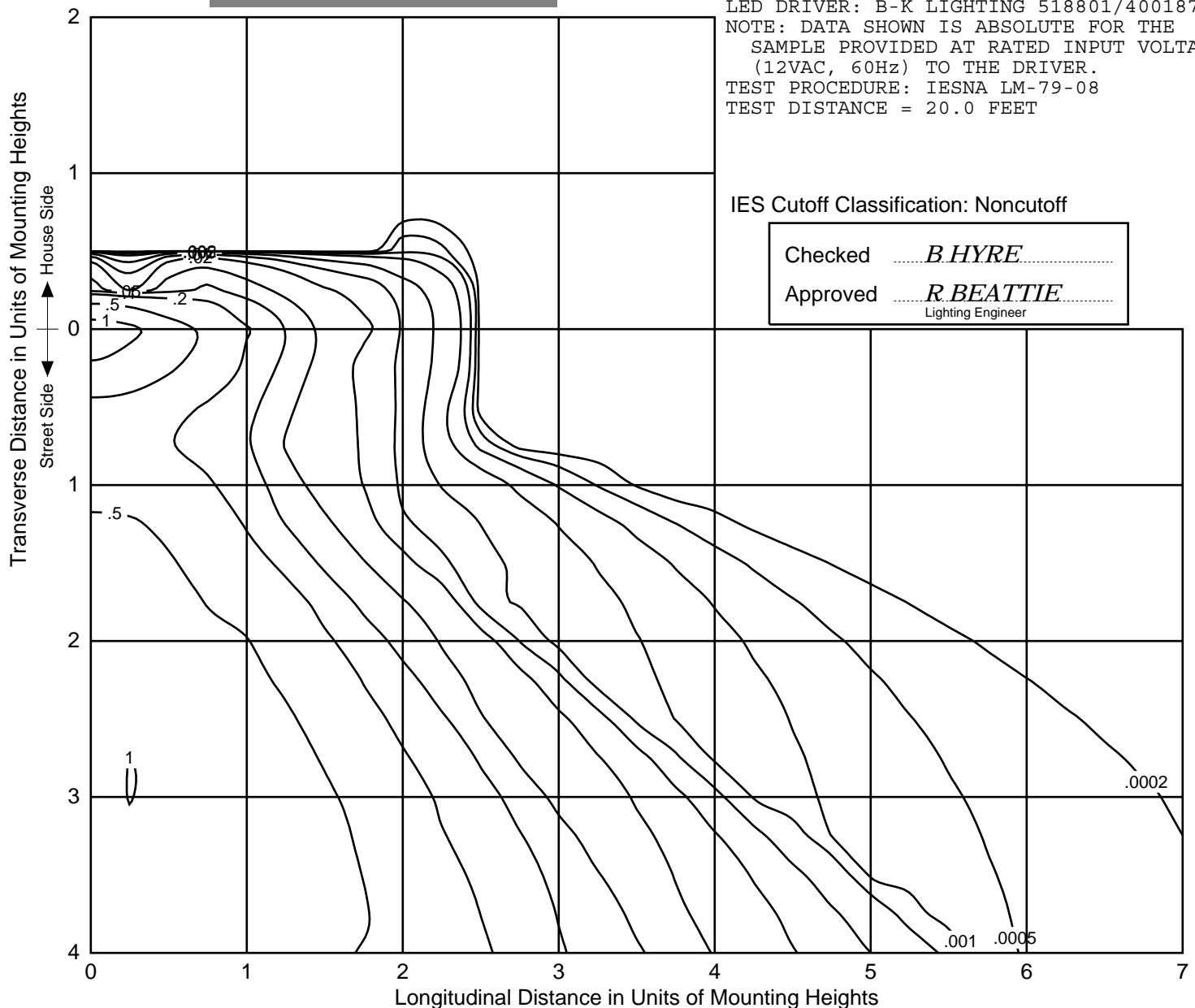
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

IES Cutoff Classification: Noncutoff

Checked *B HYRE*

Approved R BEATTIE
Lighting Engineer



REPORT NUMBER: ITL86659

ISSUE DATE: 02/26/16 PAGE: 2 OF 8

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: CM-LED-e72

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE BLACK CIRCUIT BOARD WITH ONE LED, CLEAR PLASTIC OPTIC IN MOLDED WHITE PLASTIC FRAME, CLEAR FLAT LINEAR PRISMATIC GLASS LENS, MACHINED CYLINDRICAL BLACK PAINTED METAL FACEPLATE, LENS PRISMS OUT AND VERTICAL.

LAMP: ONE WHITE LIGHT EMITTING DIODE (LED), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 2.40 WATTS, 0.312 AMPS

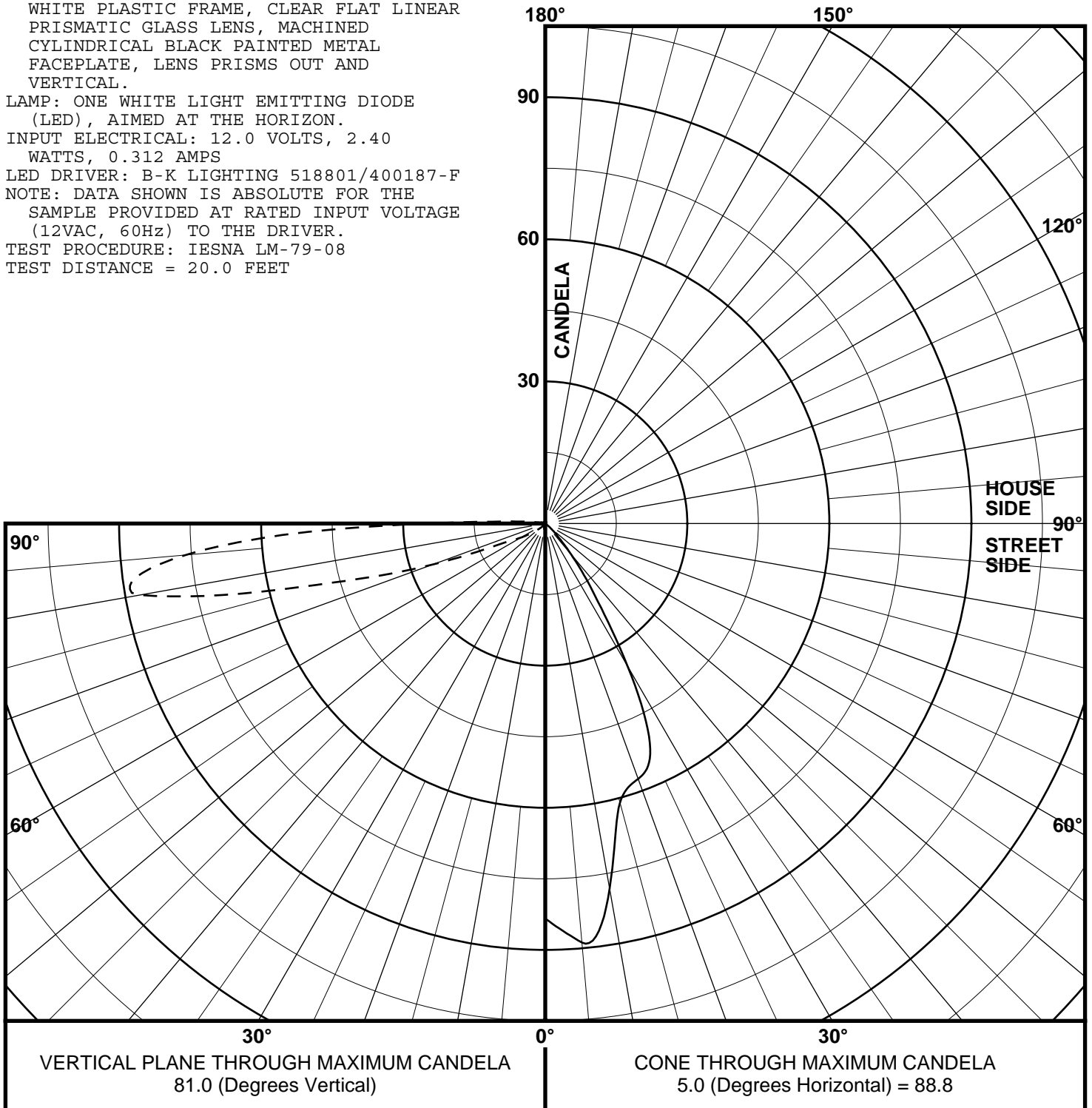
LED DRIVER: B-K LIGHTING 518801/400187-F

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

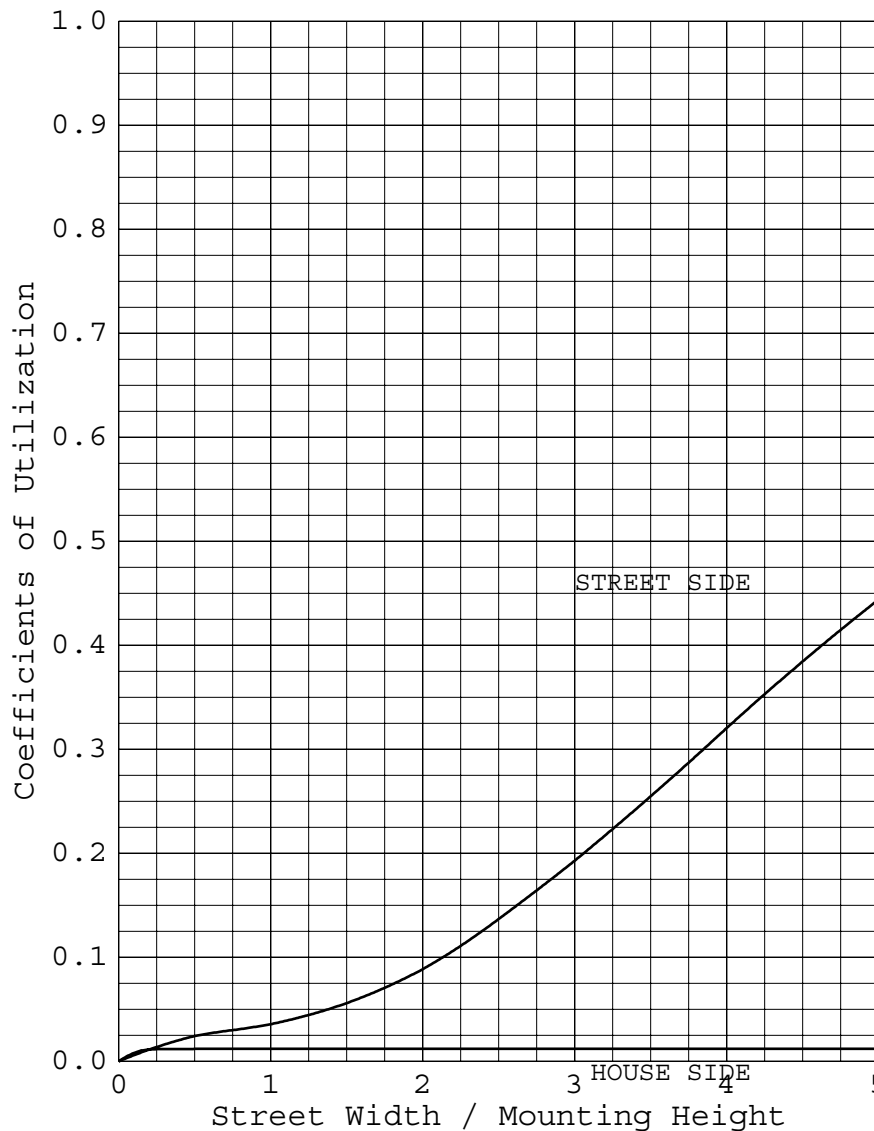




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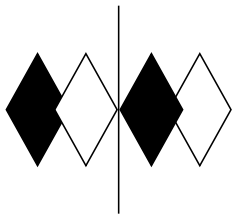
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	22.2	92.5
DOWNWARD HOUSE SIDE	0.3	1.2
DOWNWARD TOTAL	22.5	93.6
UPWARD STREET SIDE	1.5	6.4
UPWARD HOUSE SIDE	0.0	0.0
UPWARD TOTAL	1.5	6.4
TOTAL FLUX	24.1	100.0

EFFICACY = 10.0 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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4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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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	22.2	92.5	
FL (0- 30)	0.4	1.6	
FM (30- 60)	1.1	4.4	
FH (60- 80)	10.1	42.0	G0
FVH(80- 90)	10.7	44.5	G1
BACK LIGHT	0.3	1.2	
BL (0- 30)	0.2	0.8	B0
BM (30- 60)	0.1	0.4	B0
BH (60- 80)	0.0	0.0	B0 G0
BVH(80- 90)	0.0	0.0	G0
UPLIGHT	1.5	6.4	
UL (90-100)	1.4	5.8	U1
UH (100-180)	0.1	0.6	U1
TRAPPED LIGHT	0.0	0.0	
TOTAL FLUX	24.1	100.0	

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

BUG RATING: B0 U1 G1

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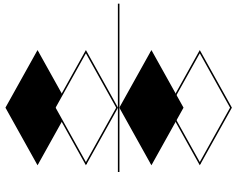
PREPARED FOR: B-K LIGHTING, INC.

CANDELA TABULATION

	STREET SIDE		LATERAL ANGLE								
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0
180.0	0.0	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	0.0
165.0	0.0	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	0.0
145.0	0.0	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	0.0
125.0	0.0	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	0.0
105.0	0.9	0.9	0.6	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
95.0	5.3	4.7	3.9	3.1	1.7	0.4	0.1	0.0	0.0	0.0	0.0
92.5	10.6	9.6	8.1	7.7	3.4	0.8	0.1	0.0	0.0	0.0	0.0
90.0	28.4	25.0	21.9	19.2	8.1	1.4	0.1	0.0	0.0	0.0	0.0
87.5	58.4	55.6	41.5	29.8	11.8	1.9	0.1	0.0	0.0	0.0	0.0
85.0	81.6	76.3	56.4	43.0	15.5	2.4	0.2	0.0	0.0	0.0	0.0
V 82.5	85.8	87.2	61.7	51.7	17.6	3.2	0.2	0.1	0.0	0.0	0.0
E 81.0<<	83.4	88.8	61.0	52.5	17.5	3.4	0.2	0.1	0.0	0.0	0.0
R 80.0	79.6	86.9	59.5	51.2	17.3	3.5	0.2	0.1	0.0	0.0	0.0
T 77.5	60.6	69.7	52.1	45.2	15.7	3.3	0.2	0.1	0.0	0.0	0.0
I 75.0	41.3	50.0	38.5	33.0	12.2	2.7	0.2	0.1	0.0	0.0	0.0
C 72.5	30.4	36.4	27.0	22.2	8.6	2.3	0.2	0.1	0.0	0.0	0.0
A 70.0	22.2	25.2	18.3	14.7	6.0	1.9	0.3	0.1	0.0	0.0	0.0
L 67.5	14.7	15.8	11.9	10.0	4.5	1.4	0.2	0.1	0.0	0.0	0.0
65.0	9.6	9.7	8.0	7.2	3.5	1.1	0.3	0.1	0.1	0.1	0.1
A 62.5	7.2	7.4	6.2	4.7	2.4	0.9	0.3	0.2	0.1	0.1	0.1
N 60.0	5.9	5.9	4.8	3.4	1.8	0.8	0.3	0.2	0.2	0.1	0.2
G 57.5	4.7	4.6	3.7	2.8	1.5	0.7	0.3	0.2	0.2	0.2	0.2
L 55.0	3.5	3.5	2.9	2.1	1.3	0.7	0.3	0.2	0.2	0.2	0.2
E 52.5	2.7	2.7	2.3	1.7	1.0	0.6	0.4	0.3	0.3	0.3	0.3
50.0	2.0	1.9	1.7	1.3	0.9	0.6	0.4	0.4	0.4	0.4	0.5
47.5	1.3	1.4	1.3	1.0	0.8	0.5	0.4	0.4	0.5	0.4	0.5
45.0	0.9	0.9	0.9	0.8	0.6	0.4	0.4	0.4	0.5	0.5	0.6
42.5	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.6	0.6	0.6
40.0	0.6	0.7	0.7	0.6	0.5	0.5	0.5	0.6	0.7	0.7	0.7
37.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.7	0.7	0.7	0.8
35.0	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.8
30.0	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	0.9	0.9
25.0	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.0
20.0	0.7	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.0	1.1	1.0
15.0	0.9	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.2	1.1	1.2
10.0	1.3	1.2	1.2	1.3	1.3	1.4	1.3	1.4	1.3	1.4	1.3
5.0	1.3	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

||
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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PAGE: 6 OF 8

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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	81.0<<	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T	77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	72.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L	67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	65.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A	62.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	60.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G	57.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L	55.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	52.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	50.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	47.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	45.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	42.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	40.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	37.5	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	35.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30.0	0.9	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	25.0	1.1	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	20.0	1.1	1.0	0.7	0.2	0.0	0.1	0.0	0.0	0.0	0.0
	15.0	1.2	1.2	1.0	0.7	0.3	0.1	0.1	0.1	0.1	0.0
	10.0	1.4	1.4	1.3	1.1	0.9	0.7	0.5	0.4	0.4	0.4
	5.0	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1
	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

CONE OF MAXIMUM CANDELA



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PREPARED FOR: B-K LIGHTING, INC.

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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0.0
5- 10	0.1
10- 15	0.1
15- 20	0.1
20- 25	0.1
25- 30	0.1
30- 35	0.1
35- 40	0.1
40- 45	0.1
45- 50	0.2
50- 55	0.2
55- 60	0.4
60- 65	0.6
65- 70	1.3
70- 75	2.8
75- 80	5.4
80- 85	6.5
85- 90	4.2
90- 95	1.1
95-100	0.2
100-105	0.1
105-110	0.1
110-115	0.0
115-120	0.0
120-125	0.0
125-130	0.0
130-135	0.0
135-140	0.0
140-145	0.0
145-150	0.0
150-155	0.0
155-160	0.0
160-165	0.0
165-170	0.0
170-175	0.0
175-180	0.0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0.1
0- 20	0.3
0- 30	0.6
0- 40	0.8
0- 50	1.1
0- 60	1.7
0- 70	3.6
0- 80	11.8
0- 90	22.5
0-100	23.9
0-110	24.0
0-120	24.1
0-130	24.1
0-140	24.1
0-150	24.1
0-160	24.1
0-170	24.1
0-180	24.1



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