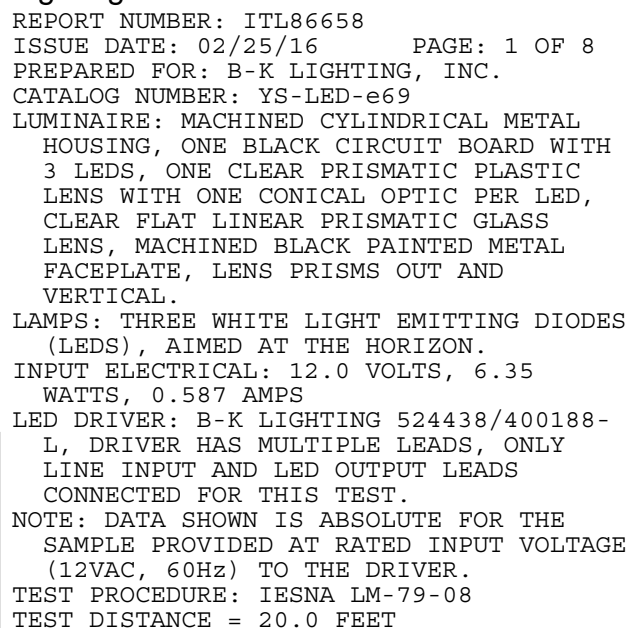




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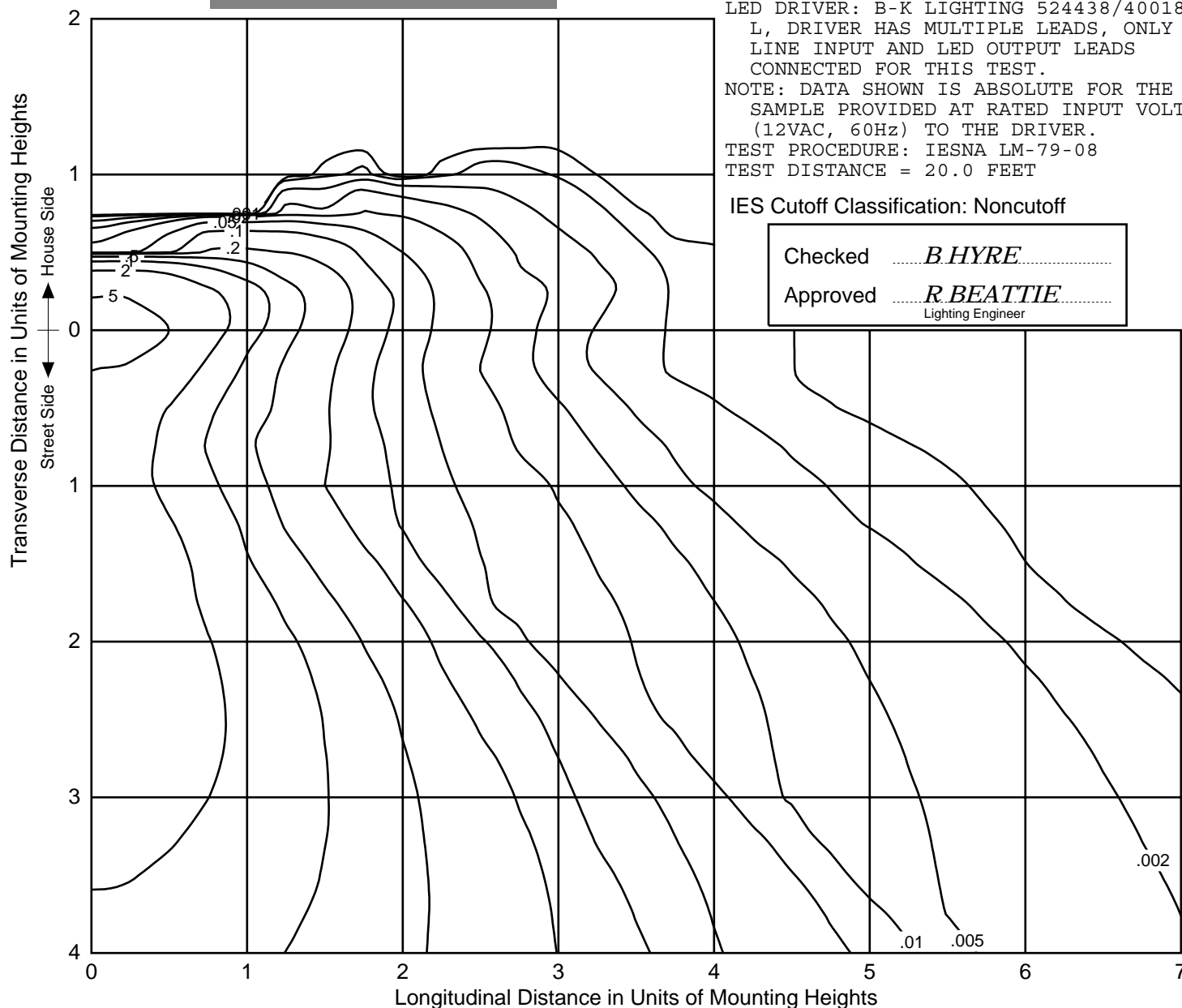


Values based on 1 foot mounting height.



IES Cutoff Classification: Noncutoff

Checked B. HYRE  
Approved R. BEATTIE  
Lighting Engineer



REPORT NUMBER: ITL86658

ISSUE DATE: 02/25/16 PAGE: 2 OF 8

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: YS-LED-e69

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE BLACK CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR PRISMATIC PLASTIC LENS WITH ONE CONICAL OPTIC PER LED, CLEAR FLAT LINEAR PRISMATIC GLASS LENS, MACHINED BLACK PAINTED METAL FACEPLATE, LENS PRISMS OUT AND VERTICAL.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 6.35 WATTS, 0.587 AMPS

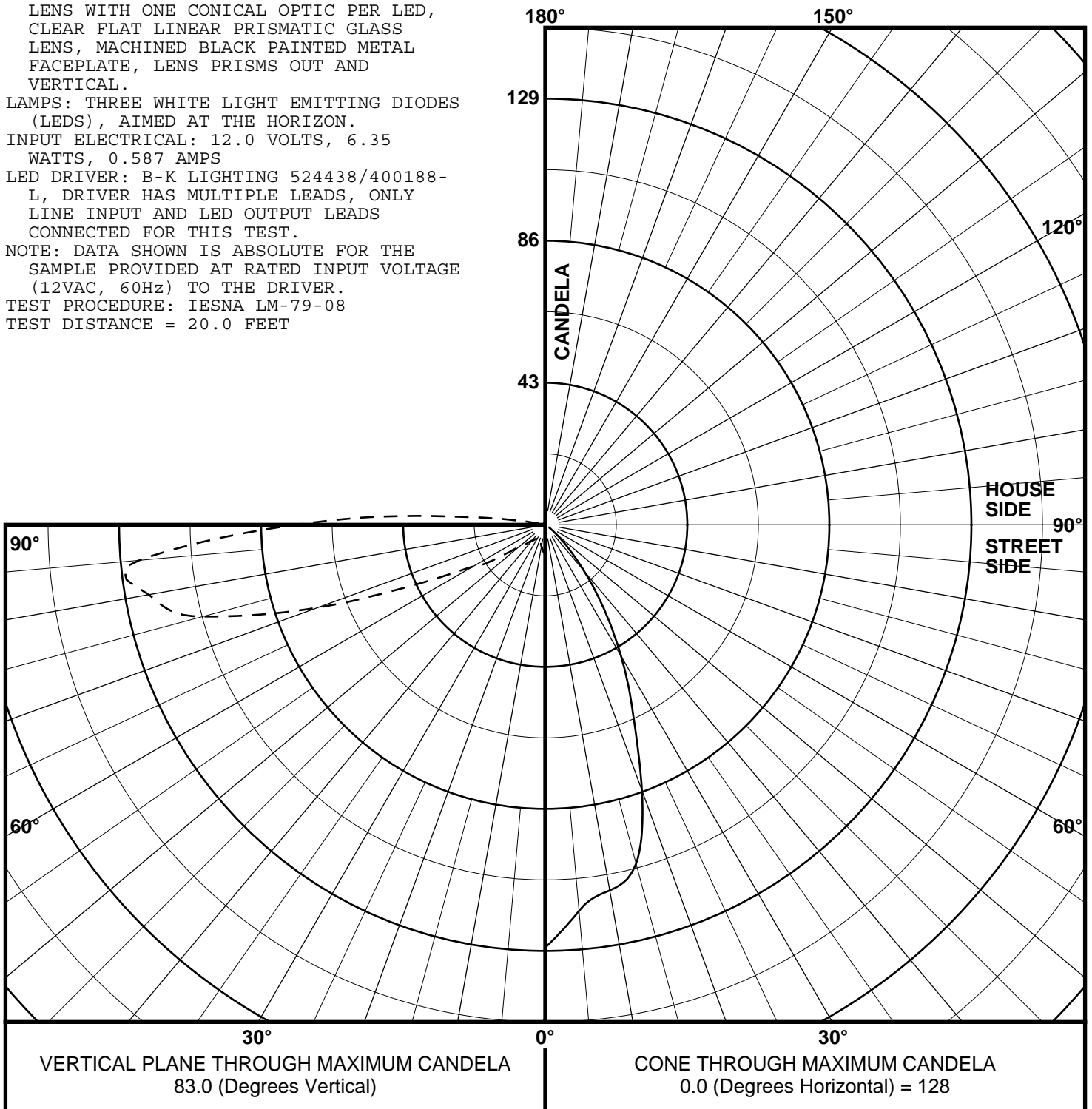
LED DRIVER: B-K LIGHTING 524438/400188-L, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

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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NVLAP LAB CODE: 200925-0

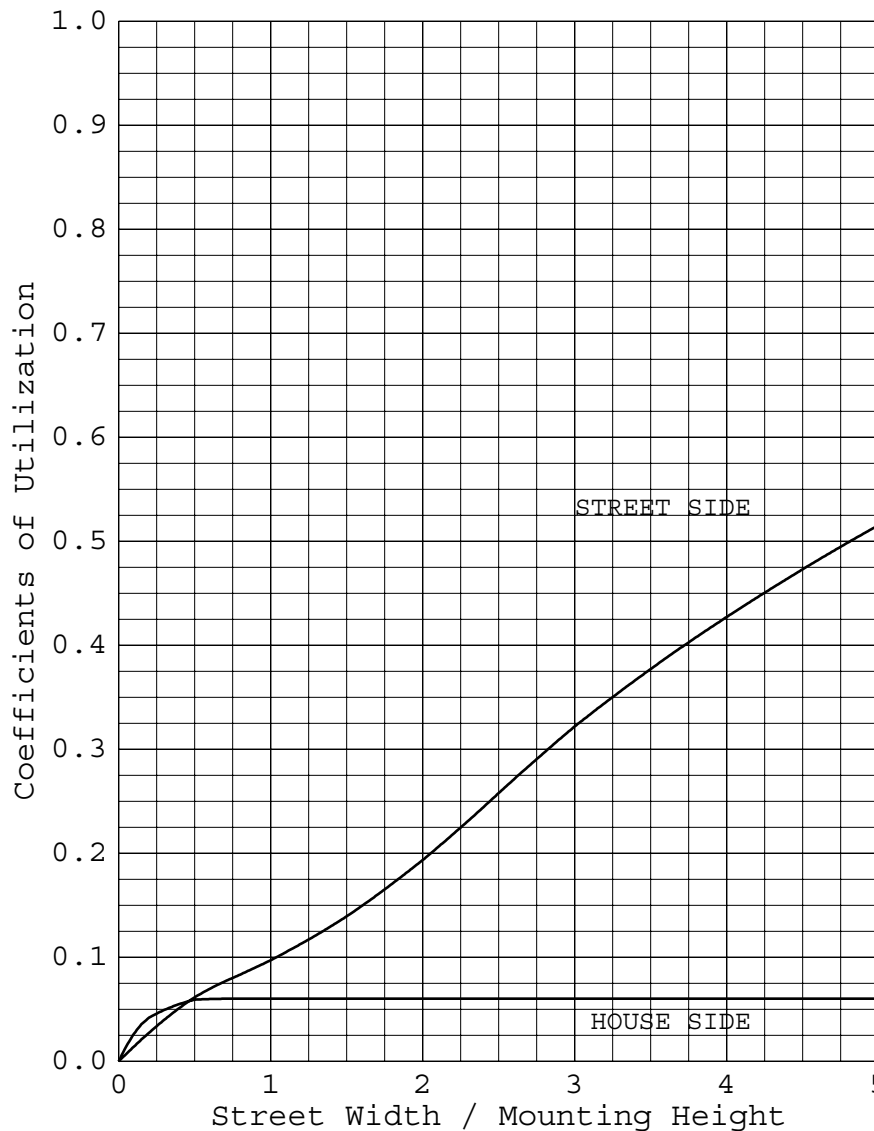
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ISSUE DATE: 02/25/16  
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PAGE: 3 OF 8

### COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	49.0	84.1
DOWNWARD HOUSE SIDE	3.5	6.0
DOWNWARD TOTAL	52.5	90.1
UPWARD STREET SIDE	5.8	9.9
UPWARD HOUSE SIDE	0.0	0.0
UPWARD TOTAL	5.8	9.9
TOTAL FLUX	58.3	100.0

EFFICACY = 9.2 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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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	49.0	84.1	
FL ( 0- 30)	2.4	4.2	
FM ( 30- 60)	6.0	10.2	
FH ( 60- 80)	22.8	39.2	G0
FVH( 80- 90)	17.8	30.5	G1
BACK LIGHT	3.5	6.0	
BL ( 0- 30)	2.2	3.8	B0
BM ( 30- 60)	1.2	2.1	B0
BH ( 60- 80)	0.1	0.1	B0 G0
BVH( 80- 90)	0.0	0.0	G0
UPLIGHT	5.8	9.9	
UL ( 90-100)	5.6	9.6	U1
UH (100-180)	0.2	0.3	U1
TRAPPED LIGHT	0.0	0.0	
TOTAL FLUX	58.3	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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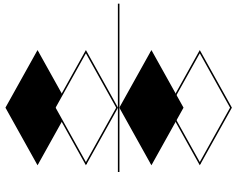
PAGE: 5 OF 8

# 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.
175.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
165.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
155.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
145.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
135.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
125.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
115.0		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
105.0		1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
95.0		29.	29.	25.	17.	7.	2.	0.	0.	0.	0.	0.
92.5		53.	53.	41.	31.	13.	3.	1.	0.	0.	0.	0.
90.0		76.	77.	59.	43.	19.	5.	1.	0.	0.	0.	0.
87.5		100.	97.	81.	52.	24.	7.	1.	1.	0.	0.	0.
85.0		123.	113.	97.	59.	29.	9.	1.	1.	0.	0.	0.
V 83.0<<		128.	117.	106.	63.	31.	10.	2.	1.	0.	0.	0.
E 82.5		128.	117.	106.	63.	31.	10.	2.	1.	0.	0.	0.
R 80.0		122.	116.	100.	65.	31.	10.	2.	1.	0.	0.	0.
T 77.5		117.	115.	89.	60.	29.	10.	2.	1.	0.	0.	0.
I 75.0		107.	104.	81.	54.	27.	9.	2.	1.	0.	0.	0.
C 72.5		90.	88.	69.	44.	23.	8.	2.	1.	1.	0.	0.
A 70.0		73.	70.	56.	37.	19.	7.	2.	1.	1.	0.	0.
L 67.5		56.	55.	43.	29.	15.	6.	2.	1.	1.	0.	1.
65.0		42.	41.	33.	22.	12.	5.	2.	1.	1.	1.	1.
A 62.5		32.	32.	25.	17.	9.	4.	2.	1.	1.	1.	1.
N 60.0		25.	25.	20.	14.	8.	4.	2.	2.	1.	1.	1.
G 57.5		23.	21.	18.	12.	7.	4.	2.	2.	1.	1.	2.
L 55.0		17.	17.	14.	10.	6.	3.	2.	2.	2.	2.	2.
E 52.5		13.	13.	11.	8.	5.	3.	2.	2.	2.	2.	2.
50.0		11.	11.	9.	7.	5.	3.	2.	2.	2.	2.	3.
47.5		9.	10.	8.	6.	4.	3.	2.	2.	2.	3.	3.
45.0		8.	8.	7.	5.	4.	3.	2.	3.	3.	3.	4.
42.5		7.	7.	6.	5.	4.	3.	3.	3.	3.	4.	4.
40.0		6.	6.	6.	5.	4.	3.	3.	3.	3.	4.	5.
37.5		6.	6.	6.	5.	4.	3.	3.	3.	4.	5.	5.
35.0		5.	5.	5.	5.	4.	4.	3.	4.	4.	5.	6.
30.0		5.	5.	5.	4.	4.	4.	4.	5.	5.	6.	6.
25.0		4.	4.	4.	4.	5.	5.	5.	5.	6.	7.	7.
20.0		4.	4.	4.	5.	5.	5.	6.	6.	7.	8.	9.
15.0		5.	5.	6.	6.	6.	6.	7.	7.	8.	8.	9.
10.0		7.	7.	7.	7.	7.	7.	8.	8.	8.	9.	9.
5.0		8.	8.	8.	8.	9.	9.	9.	9.	9.	9.	9.
0.0		9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.

||  
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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PAGE: 6 OF 8

# 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.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
V	83.0<<	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
E	82.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
R	80.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
T	77.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
I	75.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
C	72.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
A	70.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
L	67.5	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	65.0	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
A	62.5	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
N	60.0	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
G	57.5	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.
L	55.0	2.	2.	0.	0.	0.	0.	0.	0.	0.	0.
E	52.5	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.
	50.0	3.	3.	1.	0.	0.	0.	0.	0.	0.	0.
	47.5	4.	4.	1.	0.	0.	0.	0.	0.	0.	0.
	45.0	4.	4.	1.	0.	0.	0.	0.	0.	0.	0.
	42.5	5.	5.	2.	0.	0.	0.	0.	0.	0.	0.
	40.0	5.	5.	2.	0.	0.	0.	0.	0.	0.	0.
	37.5	6.	6.	3.	1.	0.	0.	0.	0.	0.	0.
	35.0	6.	6.	4.	1.	0.	0.	0.	0.	0.	0.
	30.0	7.	7.	6.	3.	1.	0.	0.	0.	0.	0.
	25.0	8.	8.	7.	5.	2.	1.	1.	0.	0.	0.
	20.0	9.	9.	8.	7.	5.	3.	2.	1.	1.	1.
	15.0	9.	9.	9.	8.	7.	6.	5.	4.	4.	4.
	10.0	9.	9.	9.	9.	9.	8.	8.	8.	8.	8.
	5.0	9.	9.	9.	10.	10.	10.	10.	10.	10.	10.
	0.0	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.

CONE OF MAXIMUM CANDELA



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ISSUE DATE: 02/25/16  
PREPARED FOR: B-K LIGHTING, INC.

PAGE: 7 OF 8

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	0.2
5- 10	0.6
10- 15	0.9
15- 20	1.0
20- 25	1.0
25- 30	1.0
30- 35	1.0
35- 40	1.0
40- 45	1.0
45- 50	1.1
50- 55	1.3
55- 60	1.8
60- 65	2.6
65- 70	4.4
70- 75	6.9
75- 80	9.1
80- 85	9.8
85- 90	7.9
90- 95	4.3
95-100	1.3
100-105	0.2
105-110	0.0
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	0.8
0- 20	2.7
0- 30	4.6
0- 40	6.6
0- 50	8.7
0- 60	11.8
0- 70	18.8
0- 80	34.7
0- 90	52.5
0-100	58.1
0-110	58.2
0-120	58.3
0-130	58.3
0-140	58.3
0-150	58.3
0-160	58.3
0-170	58.3
0-180	58.3



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