

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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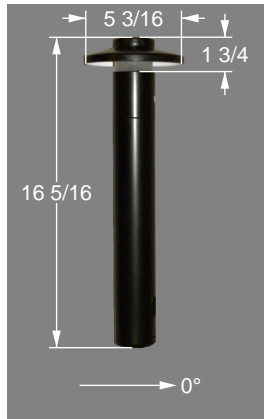
NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 1 foot mounting height.



REPORT NUMBER: ITL86261

ISSUE DATE: 01/07/16

PAGE: 1 OF 7

REVISED: 02/23/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: CS-LED-e72-D-12

LUMINAIRE: FABRICATED CYLINDRICAL BLACK PAINTED METAL MOUNTING STEM, MACHINED METAL CIRCUIT BOARD MOUNTING BASE, 1 BLACK CIRCUIT BOARD WITH 1 LED, CLEAR PLASTIC OPTIC ABOVE LED WITH RECESSED TOP CENTER, CLEAR FROSTED GLASS LENS IN FABRICATED BLACK PAINTED METAL TOP HOUSING, MACHINED WHITE PAINTED METAL TOP REFLECTOR WITH BLACK PAINTED EXTERIOR. LENS FROSTED SIDE IN.

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

INPUT ELECTRICAL: 12.0 VOLTS, 2.67

WATTS, 0.344 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.

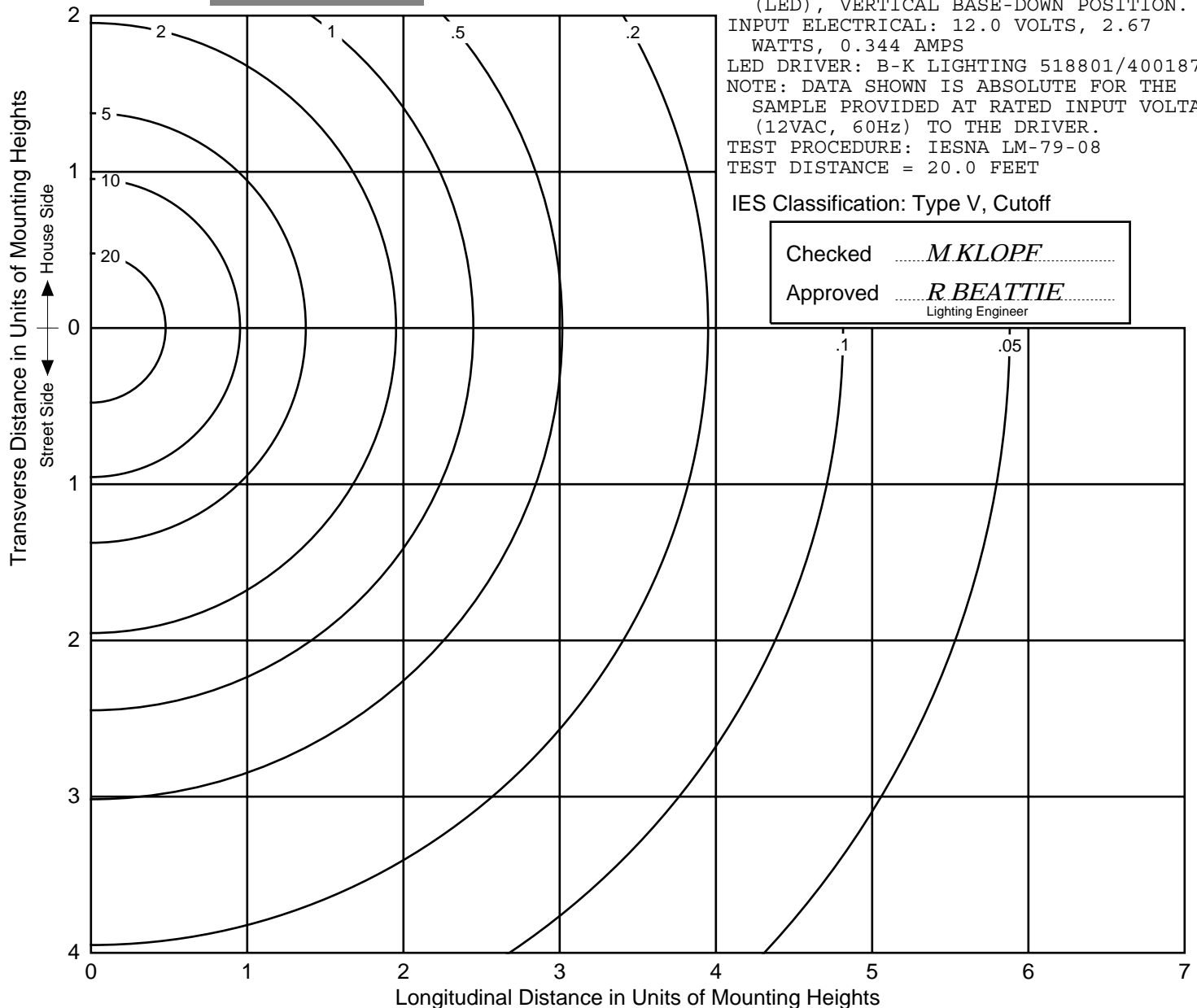
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

IES Classification: Type V, Cutoff

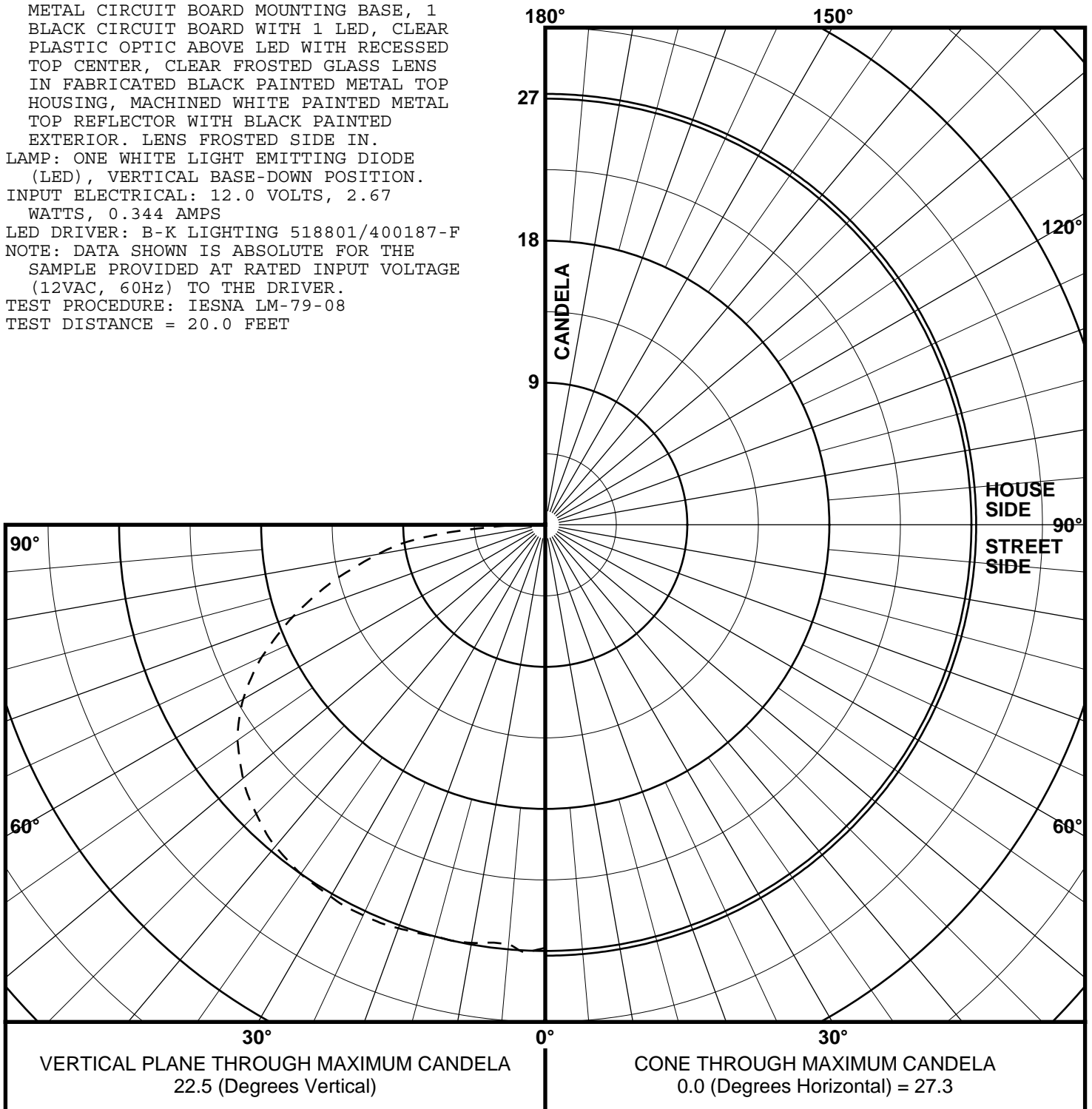
Checked M.KLOPF

Approved R.BEATTIE
Lighting Engineer



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MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA





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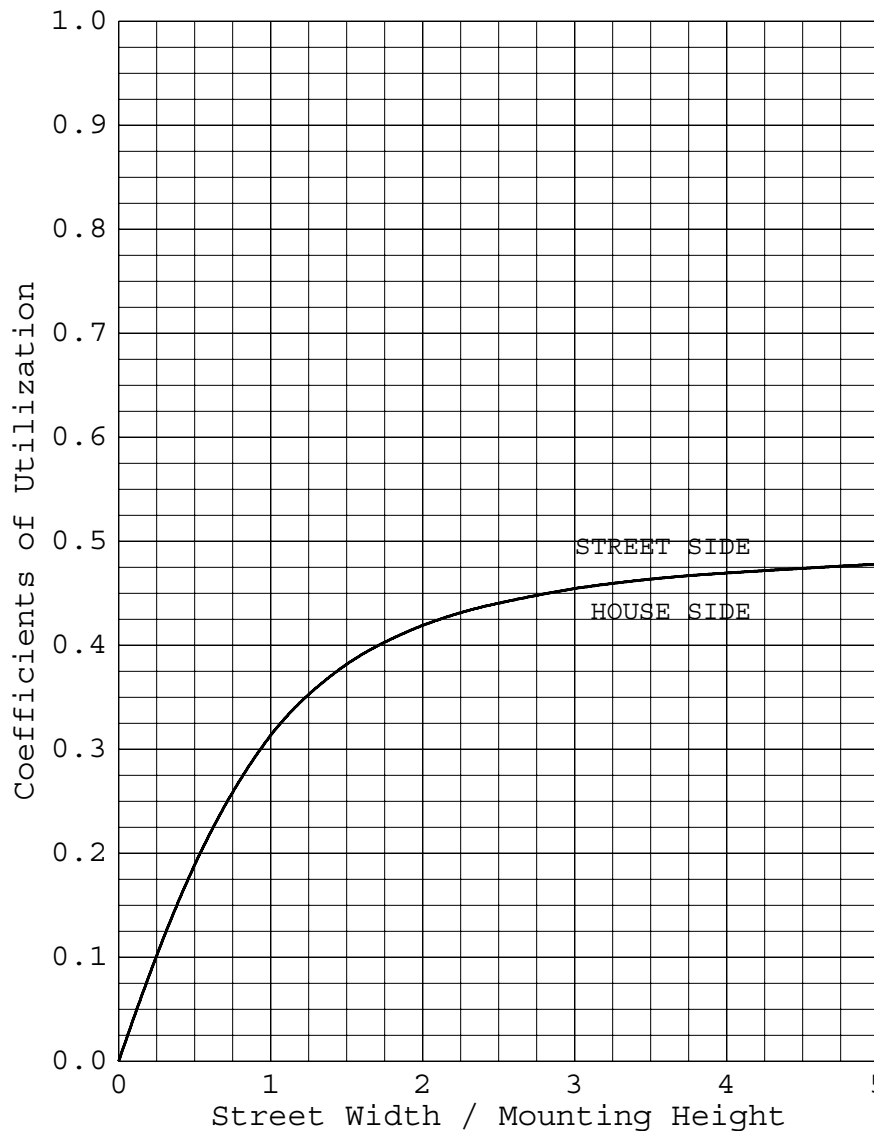
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	61	49.7
DOWNWARD HOUSE SIDE	61	49.7
DOWNWARD TOTAL	122	99.4
UPWARD STREET SIDE	0	0.3
UPWARD HOUSE SIDE	0	0.3
UPWARD TOTAL	1	0.6
TOTAL FLUX	123	100.0

EFFICACY = 46.1 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.



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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	61.	49.7	
FL (0- 30)	11.4	9.3	
FM (30- 60)	29.1	23.7	
FH (60- 80)	17.1	13.9	G0
FVH(80- 90)	3.5	2.8	G0
BACK LIGHT	61.	49.7	
BL (0- 30)	11.4	9.3	B0
BM (30- 60)	29.1	23.7	B0
BH (60- 80)	17.1	13.9	B0 G0
BVH(80- 90)	3.5	2.8	G0
UPLIGHT	1.	0.6	
UL (90-100)	0.7	0.5	U1
UH (100-180)	0.1	0.0	U1
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	123.	100.0	

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

BUG RATING: B0 U1 G0



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CANDELA TABULATION

TYPE V

	180.0	0.0
	175.0	0.0
	165.0	0.0
	155.0	0.0
	145.0	0.0
	135.0	0.0
	125.0	0.0
	115.0	0.0
	105.0	0.0
	95.0	0.5
	92.5	0.8
	90.0	1.4
	87.5	3.6
	85.0	6.7
V	82.5	9.2
E	80.0	10.8
R	77.5	12.3
T	75.0	14.0
I	72.5	15.5
C	70.0	17.0
A	67.5	18.4
L	65.0	19.8
	62.5	21.0
A	60.0	22.1
N	57.5	23.0
G	55.0	23.8
L	52.5	24.4
E	50.0	25.0
	47.5	25.5
	45.0	25.9
	42.5	26.3
	40.0	26.6
	37.5	26.8
	35.0	27.0
	30.0	27.2
	25.0	27.3
	22.5<<	27.3
	20.0	27.2
	15.0	27.0
	10.0	26.9
	5.0	26.7
	0.0	26.8

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	1
5- 10	2
10- 15	3
15- 20	4
20- 25	6
25- 30	7
30- 35	8
35- 40	9
40- 45	10
45- 50	10
50- 55	11
55- 60	11
60- 65	10
65- 70	9
70- 75	8
75- 80	7
80- 85	5
85- 90	2
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	3
0- 20	10
0- 30	23
0- 40	40
0- 50	60
0- 60	81
0- 70	101
0- 80	115
0- 90	122
0-100	123
0-110	123
0-120	123
0-130	123
0-140	123
0-150	123
0-160	123
0-170	123
0-180	123



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