

REPORT NUMBER: ITL46473

DATE: 06/13/97

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: N/S-7-XXX-13

LUMINAIRE: MACHINED BRASS LAMP/SOCKET HOUSING, CYLINDRICAL METAL
FORWARD HOUSING, CLEAR FLAT GLASS ENCLOSURE WITH CLEAR LINEAR
PRISMATIC GLASS OVERLAY. PRISMS ALIGNED VERTICALLY.

LAMP: ONE 50-WATT MR-16 HALOGEN INCANDESCENT, EYE MR16-EXZ-12V,
HORIZONTAL POSITION.

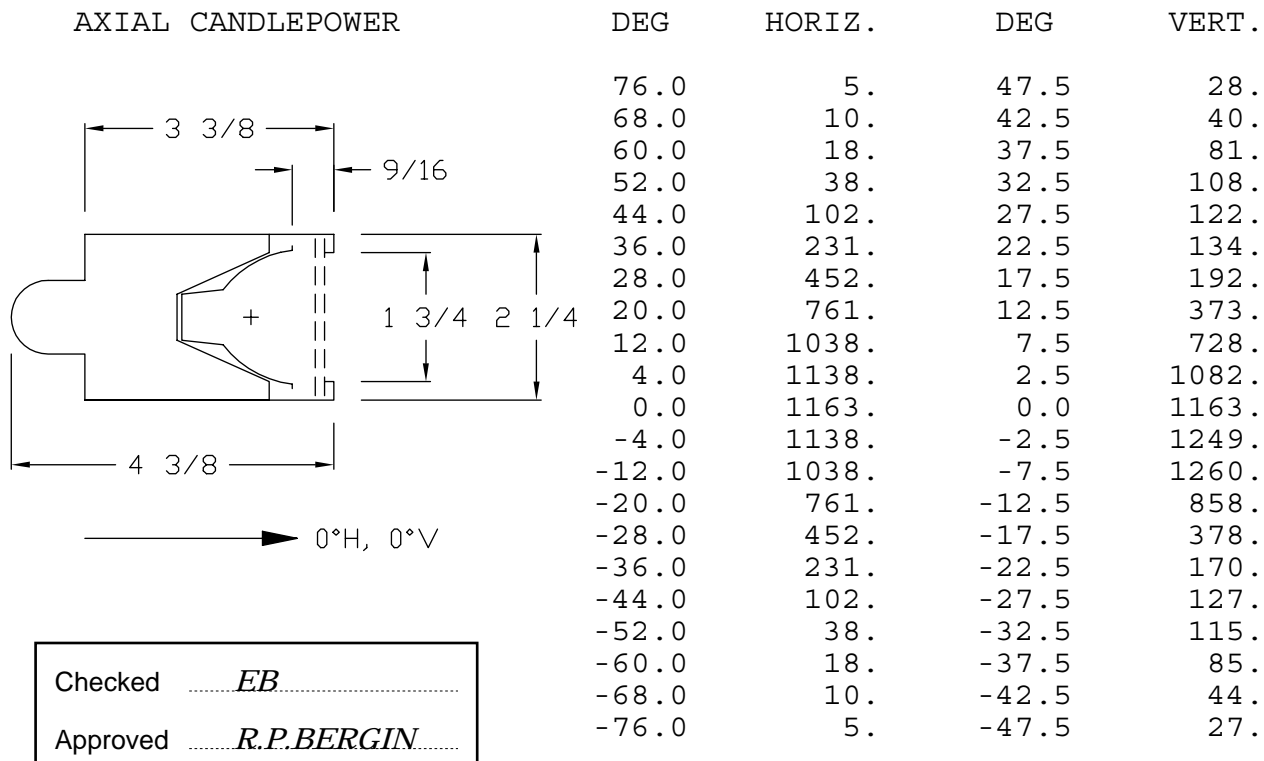
NOTE: DATA SHOWN IS ABSOLUTE FOR SAMPLE PROVIDED, AT
RATED INPUT VOLTAGE TO THE LAMP.

REPORT IS BASED ON 860 LUMENS PER LAMP.

FLOODLIGHT CHARACTERISTICS

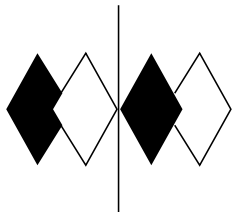
PAGE 1

IES TYPE	5H X 4V
MAXIMUM CANDLEPOWER	1301. AT 1.1 H, -5.5 V
HORIZONTAL BEAM ANGLE (50%)	49.7 deg
VERTICAL BEAM ANGLE (50%)	23.3 deg
HORIZONTAL FIELD ANGLE (10%)	85.1 deg
VERTICAL FIELD ANGLE (10%)	51.3 deg
BEAM LUMENS (EFFICIENCY)	287. (33.4 %)
FIELD LUMENS (EFFICIENCY)	470. (54.6 %)
TOTAL LUMENS (EFFICIENCY)	605. (70.3 %)



ALL CANDELA AND LUMEN VALUES IN THIS REPORT ARE BASED ON RELATIVE
PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR= 1.000. ANY CALCULATIONS
PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



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

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

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CANDELA TABULATION

PAGE 2

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	4.0	12.0	20.0	28.0	36.0	44.0	52.0	60.0	68.0	76.0
47.5	28.	27.	27.	26.	24.	22.	15.	11.	8.	6.	3.
42.5	40.	38.	41.	41.	34.	29.	19.	13.	9.	6.	3.
37.5	81.	75.	69.	61.	45.	35.	24.	15.	11.	6.	3.
32.5	108.	115.	91.	72.	55.	41.	29.	18.	13.	7.	4.
27.5	122.	117.	116.	83.	68.	50.	35.	19.	14.	8.	4.
22.5	134.	124.	131.	112.	89.	61.	44.	23.	15.	9.	5.
17.5	192.	185.	169.	168.	124.	83.	54.	26.	16.	10.	5.
12.5	373.	355.	303.	301.	208.	121.	66.	30.	16.	10.	5.
7.5	728.	686.	582.	528.	331.	172.	83.	34.	17.	10.	5.
2.5	1082.	1022.	879.	721.	433.	219.	97.	37.	18.	10.	5.
0.0	1163.	1138.	1038.	761.	452.	231.	102.	38.	18.	10.	5.
-2.5	1249.	1217.	1122.	812.	479.	242.	105.	38.	18.	11.	5.
-7.5	1260.	1238.	1162.	869.	509.	245.	105.	37.	17.	11.	4.
-12.5	858.	848.	816.	678.	415.	211.	92.	35.	17.	10.	4.
-17.5	378.	371.	377.	352.	247.	145.	75.	30.	16.	10.	5.
-22.5	170.	166.	175.	160.	127.	88.	56.	24.	15.	9.	5.
-27.5	127.	126.	123.	97.	78.	58.	39.	19.	13.	9.	4.
-32.5	115.	115.	98.	77.	58.	44.	30.	17.	11.	7.	4.
-37.5	85.	83.	73.	59.	45.	36.	24.	14.	10.	6.	3.
-42.5	44.	44.	45.	42.	33.	28.	18.	12.	9.	6.	2.
-47.5	27.	29.	28.	26.	24.	22.	15.	10.	8.	5.	2.

BEAM EDGE = 651. CP = 50% OF MAX.
FIELD EDGE = 130. CP = 10% OF MAX.



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CANDELA TABULATION -- FIELD ONLY

PAGE 3

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	4.0	12.0	20.0	28.0	36.0	44.0	52.0	60.0	68.0	76.0
47.5											
42.5											
37.5											
32.5											
27.5											
22.5	134.		131.								
17.5	192.	185.	169.	168.							
12.5	373.	355.	303.	301.	208.						
7.5	728.	686.	582.	528.	331.	172.					
2.5	1082.	1022.	879.	721.	433.	219.					
0.0	1163.	1138.	1038.	761.	452.	231.					
-2.5	1249.	1217.	1122.	812.	479.	242.					
-7.5	1260.	1238.	1162.	869.	509.	245.					
-12.5	858.	848.	816.	678.	415.	211.					
-17.5	378.	371.	377.	352.	247.	145.					
-22.5	170.	166.	175.	160.							
-27.5											
-32.5											
-37.5											
-42.5											
-47.5											

BEAM EDGE = 651. CP = 50% OF MAX.
FIELD EDGE = 130. CP = 10% OF MAX.



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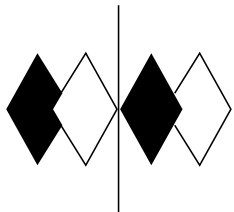
LUMEN TABULATION

PAGE 4

AVERAGE OF RIGHT AND LEFT SIDES

	0	8	16	24	32	40	48	56	64	72	80	TOTAL
50												
45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
35	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	4.
30	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	5.
25	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	6.
20	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	7.
15	2.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	9.
10	4.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.	16.
5	8.	7.	6.	4.	2.	1.	0.	0.	0.	0.	0.	28.
0	12.	10.	8.	5.	2.	1.	0.	0.	0.	0.	0.	39.
-5	15.	13.	9.	5.	2.	1.	0.	0.	0.	0.	0.	46.
-10	15.	14.	10.	5.	2.	1.	0.	0.	0.	0.	0.	48.
-15	10.	10.	8.	4.	2.	1.	0.	0.	0.	0.	0.	36.
-20	5.	4.	4.	3.	1.	1.	0.	0.	0.	0.	0.	18.
-25	2.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	9.
-30	2.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	6.
-35	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	5.
-40	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	4.
-45	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
-50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
	85.	77.	60.	37.	19.	9.	3.	2.	1.	0.	0.	293.

LUMEN TOTAL THIS PAGE = 293.



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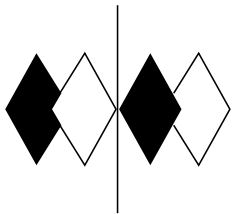
LUMEN TABULATION -- FIELD ONLY

PAGE 5

AVERAGE OF RIGHT AND LEFT SIDES

	0	8	16	24	32	40	48	56	64	72	80	TOTAL
50												0.
45												0.
40												0.
35												0.
30												0.
25												0.
20			2.									2.
15		2.	2.	2.								6.
10		4.	4.	3.	2.							14.
5		8.	7.	6.	4.	2.						27.
0		12.	10.	8.	5.	2.						38.
-5		15.	13.	9.	5.	2.						45.
-10		15.	14.	10.	5.	2.						47.
-15		10.	10.	8.	4.	2.						34.
-20		5.	4.	4.	3.	1.						17.
-25		2.	2.	2.								6.
-30												0.
-35												0.
-40												0.
-45												0.
-50												0.
	74.	68.	53.	28.	12.	0.	0.	0.	0.	0.	0.	235.

LUMEN TOTAL THIS PAGE = 235.



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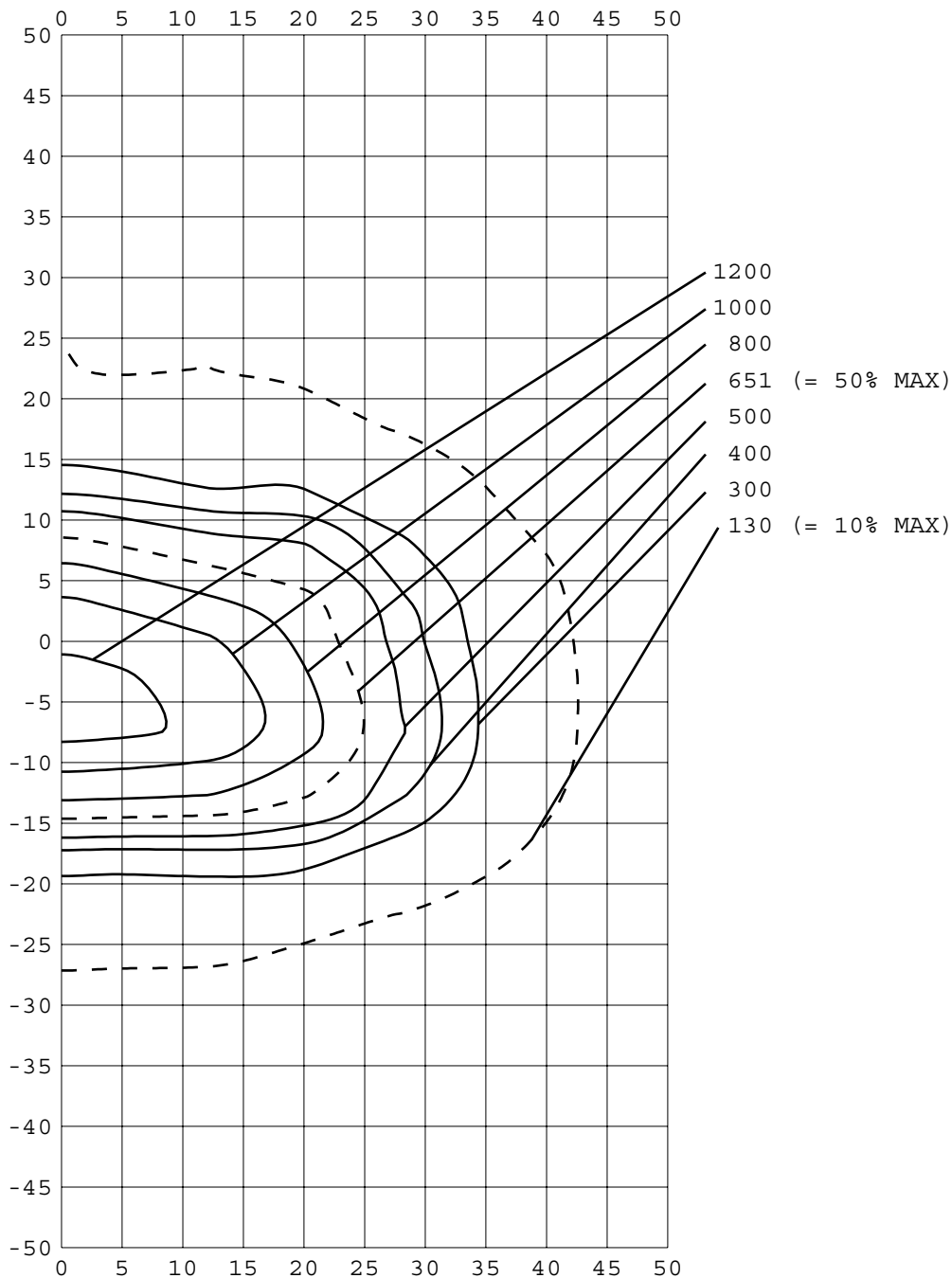
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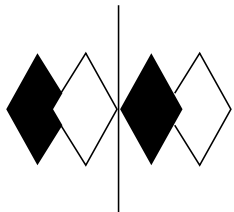
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ISOCANDELA CURVES

PAGE 6

AVERAGE OF RIGHT AND LEFT SIDES





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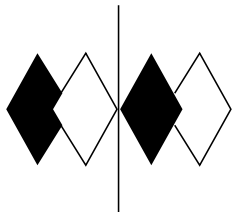
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CANDELA TABULATION -- 10 BY 10 INCREMENTS

PAGE 7

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0
85.0	0.	1.	2.	1.	0.	0.	0.	0.	0.	0.
75.0	6.	6.	6.	5.	4.	3.	3.	1.	1.	0.
65.0	12.	12.	12.	11.	9.	6.	5.	3.	1.	1.
55.0	20.	20.	20.	18.	16.	11.	7.	5.	2.	1.
45.0										1.
35.0										1.
25.0										1.
15.0										1.
5.0										1.
0.0	see page 2									1.
-5.0										1.
-15.0										0.
-25.0										0.
-35.0										0.
-45.0										0.
-55.0	18.	19.	19.	17.	14.	10.	7.	4.	2.	0.
-65.0	12.	11.	11.	10.	8.	6.	4.	3.	1.	0.
-75.0	6.	5.	6.	5.	3.	3.	2.	0.	1.	0.
-85.0	0.	2.	1.	1.	0.	0.	0.	0.	0.	0.



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LUMEN TABULATION -- 10 BY 10 INCREMENTS

PAGE 8

AVERAGE OF RIGHT AND LEFT SIDES

	0	10	20	30	40	50	60	70	80	90	TOTAL
90											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
70											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
60											
	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	3.
50											
										0.	
40											
										0.	
30											
										0.	
20											
										0.	
10											
										0.	
0	see page 4										293.
										0.	
-10											
										0.	
-20											
										0.	
-30											
										0.	
-40											
										0.	
-50											
	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	2.
-60											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
-70											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
-80											
	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-90											
										0.	302.

LUMEN TOTAL THIS PAGE = 302.