



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

REPORT NUMBER: ITL46475

DATE: 06/04/97

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MC-48-XXX-13-C

LUMINAIRE: MACHINED BRASS SOCKET MOUNT, CYLINDRICAL METAL LAMP  
HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, CLEAR  
FLAT GLASS ENCLOSURE WITH CLEAR LINEAR PRISMATIC GLASS  
OVERLAY. PRISMS ORIENTED VERTICALLY.

LAMP: ONE 50-WATT PAR 20 HALOGEN INCANDESCENT, PHILIPS 50PAR20/H/SP,  
HORIZONTAL POSITION.

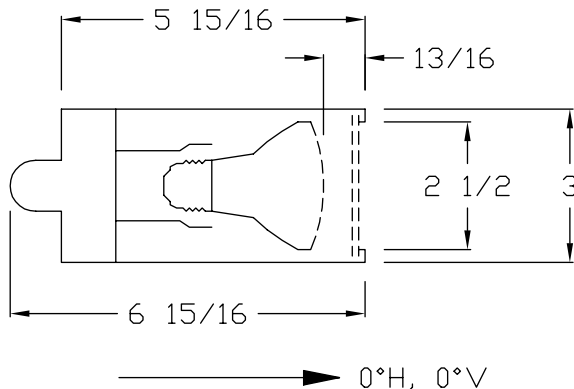
REPORT IS BASED ON 550 LUMENS PER LAMP.

# FLOODLIGHT CHARACTERISTICS

PAGE 1

IES TYPE	5H X 4V			
MAXIMUM CANDLEPOWER	825.	AT	9.6 H,	0.4 V
HORIZONTAL BEAM ANGLE (50%)	51.6 deg			
VERTICAL BEAM ANGLE (50%)	17.6 deg			
HORIZONTAL FIELD ANGLE (10%)	85.2 deg			
VERTICAL FIELD ANGLE (10%)	47.0 deg			
BEAM LUMENS (EFFICIENCY)	132.	(	24.0 %	)
FIELD LUMENS (EFFICIENCY)	253.	(	46.0 %	)
TOTAL LUMENS (EFFICIENCY)	335.	(	60.8 %	)

AXIAL CANDLEPOWER	DEG	HORIZ.	DEG	VERT.
	76.0	5.	47.5	20.
	68.0	11.	42.5	23.
	60.0	13.	37.5	31.
	52.0	25.	32.5	47.
	44.0	66.	27.5	69.
	36.0	157.	22.5	99.
	28.0	349.	17.5	146.
	20.0	579.	12.5	279.
	12.0	740.	7.5	566.
	4.0	790.	2.5	803.
	0.0	807.	0.0	807.
	-4.0	790.	-2.5	724.
	-12.0	740.	-7.5	408.
	-20.0	579.	-12.5	214.
	-28.0	349.	-17.5	120.
	-36.0	157.	-22.5	76.
	-44.0	66.	-27.5	51.
	-52.0	25.	-32.5	35.
	-60.0	13.	-37.5	25.
	-68.0	11.	-42.5	20.
	-76.0	5.	-47.5	18.

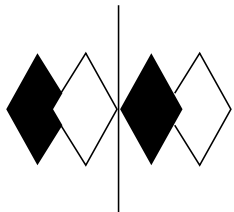


Checked WEB

Approved R.P.BERGIN

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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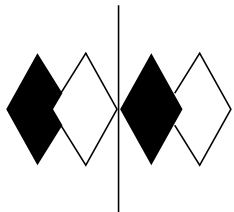
CANDELA TABULATION

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	20.	19.	20.	18.	15.	14.	10.	7.	6.	4.	2.
42.5	23.	24.	25.	24.	19.	17.	12.	7.	7.	5.	3.
37.5	31.	32.	33.	31.	26.	20.	15.	9.	8.	5.	3.
32.5	47.	47.	47.	39.	33.	25.	18.	10.	8.	6.	4.
27.5	69.	68.	59.	49.	40.	32.	22.	12.	9.	8.	4.
22.5	99.	89.	81.	66.	54.	41.	27.	15.	10.	8.	5.
17.5	146.	147.	141.	110.	85.	59.	38.	17.	11.	9.	5.
12.5	279.	285.	268.	214.	154.	95.	50.	21.	13.	10.	4.
7.5	566.	563.	529.	423.	268.	140.	62.	24.	13.	10.	5.
2.5	803.	805.	790.	572.	352.	160.	66.	25.	13.	10.	5.
0.0	807.	790.	740.	579.	349.	157.	66.	25.	13.	11.	5.
-2.5	724.	705.	646.	517.	315.	143.	62.	24.	13.	11.	5.
-7.5	408.	401.	366.	302.	197.	102.	52.	21.	12.	10.	5.
-12.5	214.	217.	208.	163.	112.	69.	39.	18.	11.	9.	4.
-17.5	120.	121.	113.	91.	70.	50.	31.	16.	10.	8.	4.
-22.5	76.	74.	67.	57.	47.	36.	25.	13.	10.	8.	4.
-27.5	51.	50.	48.	43.	37.	29.	20.	12.	9.	7.	3.
-32.5	35.	35.	35.	34.	30.	22.	17.	11.	8.	6.	3.
-37.5	25.	26.	26.	25.	23.	17.	14.	9.	8.	5.	3.
-42.5	20.	21.	21.	21.	17.	15.	11.	7.	7.	4.	2.
-47.5	18.	18.	18.	17.	13.	13.	9.	7.	6.	4.	2.

BEAM EDGE = 413. CP = 50% OF MAX.  
FIELD EDGE = 83. 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	99.	89.									
17.5	146.	147.	141.	110.	85.						
12.5	279.	285.	268.	214.	154.	95.					
7.5	566.	563.	529.	423.	268.	140.					
2.5	803.	805.	790.	572.	352.	160.					
0.0	807.	790.	740.	579.	349.	157.					
-2.5	724.	705.	646.	517.	315.	143.					
-7.5	408.	401.	366.	302.	197.	102.					
-12.5	214.	217.	208.	163.	112.						
-17.5	120.	121.	113.	91.							
-22.5											
-27.5											
-32.5											
-37.5											
-42.5											
-47.5											

BEAM EDGE = 413. CP = 50% OF MAX.  
FIELD EDGE = 83. CP = 10% OF MAX.



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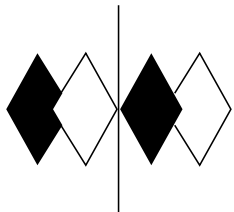
LUMEN TABULATION

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.	1.
40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
35	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
30	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
25	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	3.
20	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	4.
15	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	7.
10	3.	3.	2.	2.	1.	0.	0.	0.	0.	0.	0.	12.
5	7.	6.	5.	3.	1.	1.	0.	0.	0.	0.	0.	23.
0	10.	9.	7.	4.	2.	1.	0.	0.	0.	0.	0.	32.
-5	9.	8.	6.	3.	1.	1.	0.	0.	0.	0.	0.	28.
-10	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	17.
-15	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	9.
-20	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	6.
-25	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	4.
-30	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
-35	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.
-45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
-50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
	46.	42.	32.	20.	11.	5.	2.	1.	1.	0.	0.	161.

LUMEN TOTAL THIS PAGE = 161.



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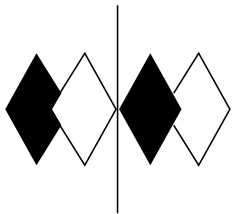
LUMEN TABULATION -- FIELD ONLY

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	1.											1.
15	2.	2.	1.	1.								6.
10	3.	3.	2.	2.	1.							12.
5	7.	6.	5.	3.	1.							22.
0	10.	9.	7.	4.	2.							31.
-5	9.	8.	6.	3.	1.							27.
-10	5.	4.	3.	2.	1.							16.
-15	3.	2.	2.	1.								8.
-20	1.	1.	1.									4.
-25												0.
-30												0.
-35												0.
-40												0.
-45												0.
-50												0.
	40.	36.	27.	16.	6.	0.	0.	0.	0.	0.	0.	127.

LUMEN TOTAL THIS PAGE = 127.



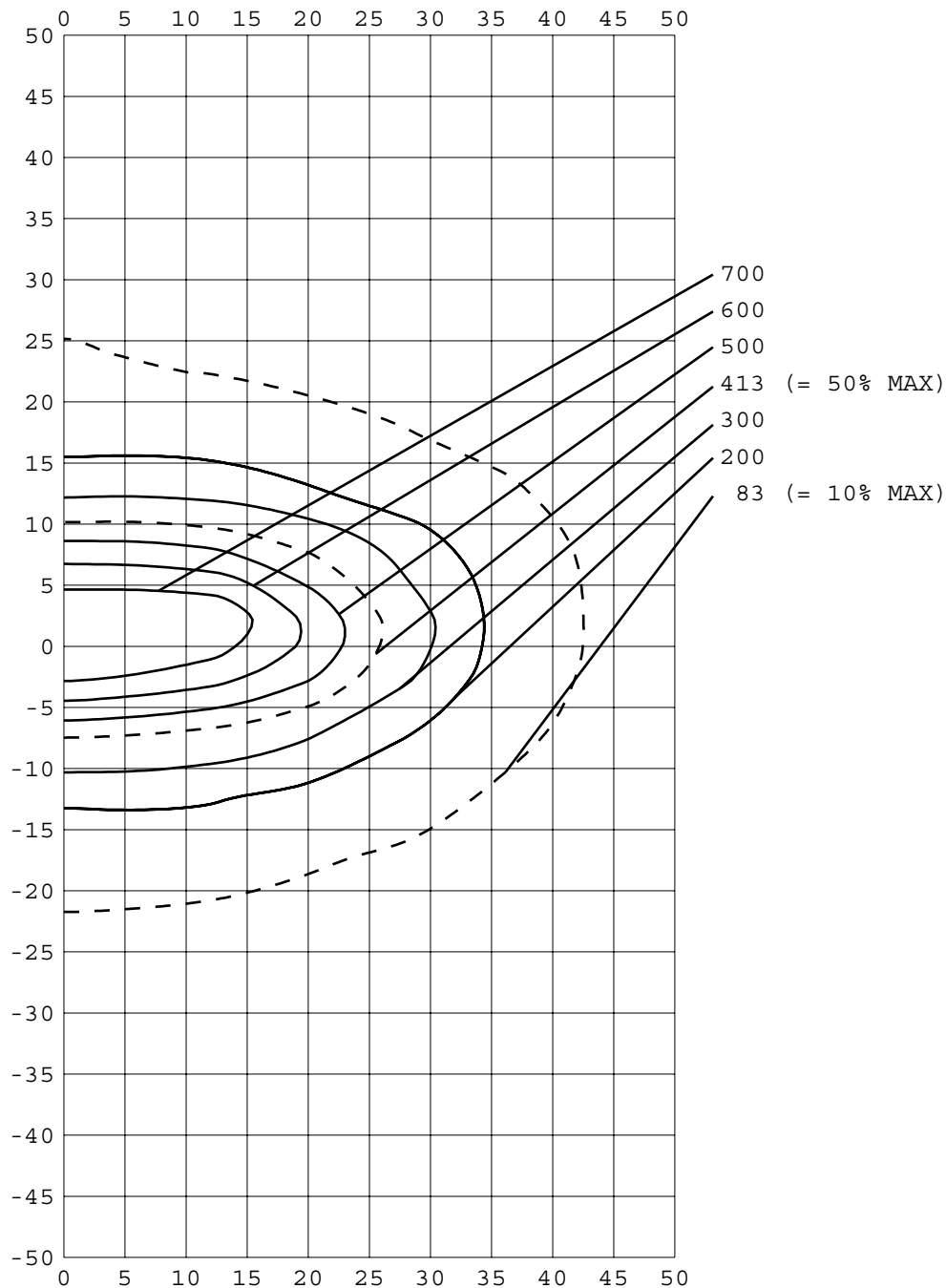
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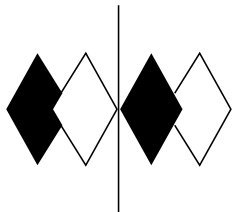
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ISOCANDELA CURVES

PAGE 6

AVERAGE OF RIGHT AND LEFT SIDES





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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.	1.	1.	1.	0.	0.	0.	0.	0.
75.0	3.	3.	3.	3.	2.	2.	2.	0.	1.	0.
65.0	9.	9.	9.	8.	6.	5.	4.	2.	2.	1.
55.0	16.	16.	14.	11.	10.	7.	5.	3.	2.	1.
45.0										1.
35.0										1.
25.0										1.
15.0										1.
5.0										2.
0.0	see page 2									1.
-5.0										1.
-15.0										1.
-25.0										1.
-35.0										1.
-45.0										1.
-55.0	15.	15.	13.	11.	10.	6.	5.	3.	2.	1.
-65.0	9.	8.	8.	7.	5.	5.	3.	2.	1.	1.
-75.0	3.	4.	4.	3.	2.	2.	2.	1.	0.	0.
-85.0	0.	2.	1.	0.	0.	0.	0.	0.	0.	0.

