

**itl boulder**  
 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)  
 REPORT NUMBER: ITL63760

DATE: 12/24/09  
 REVISED: 02/01/10

PREPARED FOR: B-K LIGHTING, INC.

PAGE 1

CATALOG NUMBER: MN-LED-e17-FL-12-C; SM-MN-e17-FL-12-C; TT-LED-e17; CH-LED-e17

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR PLASTIC LENS WITH MICRO-PRISMATIC SURFACE OPPOSITE LEDS AND ONE CONCAVE CONICAL LENS ELEMENT PER LED, CLEAR FLAT MICRO-PRISMATIC GLASS LENS IN MACHINED WHITE PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED INTERIOR, LENS PRISMS IN.

LAMPS: THREE 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL INTEGRAL PLASTIC LENS, LEDS AIMED AT THE HORIZON.

TOTAL INPUT WATTS = 8.1 AT 12.0 VOLTS

LED DRIVER: INTEGRAL

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 25.25 FEET

FLOODLIGHT CHARACTERISTICS

IES TYPE	4H X 4V				
MAXIMUM CANDLEPOWER	945. AT	0.0 H,	0.5 V		
HORIZONTAL BEAM ANGLE (50%)	30.3 deg				
VERTICAL BEAM ANGLE (50%)	30.5 deg				
HORIZONTAL FIELD ANGLE (10%)	56.6 deg				AXIAL CANDLEPOWER
VERTICAL FIELD ANGLE (10%)	57.6 deg				
BEAM LUMENS (% FIXTURE)	148. ( 45.1 % )			DEG	HORIZ.
FIELD LUMENS (% FIXTURE)	270. ( 82.4 % )				DEG
TOTAL LUMENS (% FIXTURE)	328. (100.0 % )				VERT.
EFFICACY = 40.5 Lm/W					

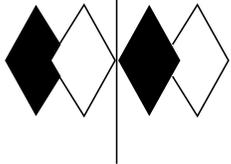
	90.0	0.	90.0	0.
	85.0	1.	85.0	0.
	75.0	2.	75.0	2.
	65.0	4.	65.0	4.
	55.0	7.	55.0	7.
	47.5	10.	47.5	10.
	42.5	15.	42.5	16.
	37.5	26.	37.5	30.
	33.0	45.	33.0	55.
	29.0	84.	29.0	99.
	25.5	137.	25.5	155.
	22.5	206.	22.5	227.
	19.5	295.	19.5	325.
	17.0	392.	17.0	421.
	15.0	480.	15.0	507.
	13.0	568.	13.0	594.
	11.0	654.	11.0	682.
	9.0	734.	9.0	759.
	7.0	814.	7.0	829.
	5.0	876.	5.0	881.
	3.0	922.	3.0	924.
	1.0	941.	1.0	944.
	0.0	944.	0.0	944.
	-1.0	941.	-1.0	936.
	-3.0	922.	-3.0	911.
	-5.0	876.	-5.0	869.
	-7.0	814.	-7.0	794.
	-9.0	734.	-9.0	709.
	-11.0	654.	-11.0	620.
	-13.0	568.	-13.0	538.
	-15.0	480.	-15.0	459.
	-17.0	392.	-17.0	375.
	-19.5	295.	-19.5	293.
	-22.5	206.	-22.5	197.
	-25.5	137.	-25.5	134.
	-29.0	84.	-29.0	83.
	-33.0	45.	-33.0	49.
	-37.5	26.	-37.5	30.
	-42.5	15.	-42.5	18.
	-47.5	10.	-47.5	13.
	-55.0	7.	-55.0	8.
	-65.0	4.	-65.0	5.
	-75.0	2.	-75.0	2.
	-85.0	1.	-85.0	1.
	-90.0	0.	-90.0	0.



Checked ..... *N.WHITE* .....  
 Approved ..... *R.BEATTIE* .....

ALL CANDELA AND LUMEN VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.

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



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CANDELA TABULATION

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0
90.0	0.	0.	0.	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.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.	0.	0.	0.
75.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.
65.0	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.	3.	2.	1.	0.	0.
55.0	7.	7.	6.	7.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.	4.	4.	2.	1.	0.	0.
47.5	10.	10.	10.	10.	10.	10.	10.	10.	9.	9.	9.	9.	8.	8.	7.	7.	7.	6.	5.	3.	1.	0.	0.
42.5	16.	16.	16.	16.	15.	15.	14.	14.	13.	13.	12.	11.	11.	10.	9.	9.	8.	7.	5.	3.	2.	1.	0.
37.5	30.	30.	29.	29.	27.	26.	24.	23.	21.	19.	18.	16.	15.	13.	12.	11.	9.	8.	6.	3.	2.	1.	0.
33.0	55.	56.	53.	51.	49.	45.	41.	38.	35.	32.	28.	24.	21.	18.	15.	13.	11.	9.	6.	4.	2.	1.	0.
29.0	99.	98.	95.	90.	85.	79.	71.	64.	57.	50.	42.	36.	30.	24.	20.	15.	12.	9.	6.	4.	2.	1.	0.
25.5	155.	154.	152.	144.	134.	122.	111.	99.	87.	77.	64.	51.	41.	31.	24.	18.	13.	9.	7.	4.	2.	1.	0.
22.5	227.	228.	222.	211.	196.	176.	160.	141.	123.	107.	88.	68.	52.	38.	28.	20.	14.	10.	7.	4.	2.	1.	0.
19.5	325.	323.	313.	296.	275.	251.	225.	197.	170.	146.	118.	88.	66.	47.	32.	22.	14.	10.	7.	4.	2.	1.	0.
17.0	421.	418.	404.	380.	357.	326.	296.	259.	223.	188.	148.	110.	80.	54.	35.	23.	15.	10.	7.	4.	2.	1.	0.
15.0	507.	504.	488.	461.	429.	392.	348.	305.	262.	221.	175.	125.	91.	60.	38.	24.	15.	10.	7.	4.	2.	1.	0.
13.0	594.	592.	577.	548.	508.	461.	412.	362.	310.	259.	200.	142.	101.	66.	40.	25.	15.	10.	7.	4.	2.	1.	0.
11.0	682.	681.	664.	630.	584.	531.	475.	416.	355.	296.	227.	160.	110.	71.	42.	25.	15.	10.	7.	4.	2.	1.	0.
9.0	759.	757.	741.	706.	656.	595.	530.	460.	396.	327.	251.	175.	117.	76.	44.	25.	15.	10.	7.	4.	2.	1.	0.
7.0	829.	826.	810.	771.	713.	652.	581.	501.	431.	354.	266.	183.	125.	77.	46.	26.	16.	10.	7.	4.	2.	1.	0.
5.0	881.	881.	862.	816.	761.	699.	624.	539.	454.	377.	280.	194.	133.	80.	46.	26.	15.	10.	7.	4.	2.	1.	0.
3.0	924.	921.	897.	850.	791.	726.	646.	555.	467.	388.	291.	203.	135.	83.	47.	26.	15.	10.	7.	4.	2.	1.	0.
1.0	944.	943.	920.	873.	813.	734.	651.	565.	476.	390.	295.	206.	137.	84.	46.	26.	15.	10.	7.	4.	2.	1.	0.
0.0	944.	941.	922.	876.	814.	734.	654.	568.	480.	392.	295.	206.	137.	84.	45.	26.	15.	10.	7.	4.	2.	1.	0.
-1.0	936.	933.	914.	872.	808.	732.	652.	565.	480.	393.	294.	205.	137.	83.	45.	25.	15.	10.	7.	4.	2.	1.	0.
-3.0	911.	910.	888.	843.	782.	711.	632.	542.	463.	382.	289.	199.	133.	81.	45.	25.	15.	10.	6.	4.	2.	1.	0.
-5.0	869.	866.	837.	795.	741.	670.	595.	513.	434.	360.	276.	193.	129.	78.	43.	24.	15.	10.	6.	4.	2.	1.	0.
-7.0	794.	791.	767.	734.	681.	619.	552.	480.	407.	339.	256.	182.	123.	76.	41.	23.	14.	9.	6.	4.	2.	1.	0.
-9.0	709.	709.	692.	659.	615.	560.	500.	433.	371.	307.	233.	168.	114.	71.	40.	22.	13.	9.	6.	4.	2.	1.	0.
-11.0	620.	621.	610.	577.	538.	489.	438.	382.	328.	273.	210.	153.	105.	67.	37.	21.	13.	9.	6.	4.	2.	1.	0.
-13.0	538.	537.	526.	495.	460.	418.	374.	328.	282.	237.	186.	135.	93.	60.	35.	20.	13.	9.	6.	4.	2.	1.	0.
-15.0	459.	457.	445.	421.	389.	352.	315.	275.	238.	202.	160.	115.	82.	55.	32.	19.	12.	9.	6.	3.	2.	1.	0.
-17.0	375.	374.	367.	350.	320.	293.	262.	229.	197.	170.	135.	99.	71.	48.	30.	18.	12.	8.	6.	3.	2.	1.	0.
-19.5	293.	291.	281.	267.	246.	221.	198.	176.	152.	128.	104.	79.	59.	41.	26.	17.	11.	8.	5.	3.	2.	1.	0.
-22.5	197.	197.	193.	183.	170.	155.	141.	126.	109.	93.	76.	59.	45.	31.	22.	15.	10.	7.	5.	3.	2.	1.	0.
-25.5	134.	133.	128.	123.	116.	104.	94.	84.	74.	65.	53.	42.	33.	25.	18.	13.	9.	7.	5.	3.	2.	1.	0.
-29.0	83.	82.	81.	78.	73.	66.	60.	54.	48.	41.	35.	29.	23.	19.	14.	11.	8.	6.	5.	3.	2.	1.	0.
-33.0	49.	48.	48.	46.	43.	39.	38.	33.	30.	27.	23.	19.	16.	14.	11.	9.	7.	6.	4.	3.	2.	1.	0.
-37.5	30.	29.	29.	29.	27.	25.	23.	21.	19.	18.	16.	14.	12.	10.	9.	7.	6.	5.	4.	2.	1.	1.	0.
-42.5	18.	19.	18.	18.	17.	16.	15.	14.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	1.	0.
-47.5	13.	13.	13.	12.	12.	11.	11.	10.	10.	9.	9.	8.	7.	7.	6.	5.	4.	4.	3.	2.	1.	0.	0.
-55.0	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.	6.	6.	5.	5.	4.	4.	3.	3.	2.	2.	1.	0.	0.
-65.0	5.	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.	4.	3.	3.	3.	3.	2.	2.	2.	1.	1.	0.	0.
-75.0	2.	2.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.
-85.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	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.	0.	0.	0.

BEAM EDGE = 473. CP = 50% OF MAX  
 FIELD EDGE = 95. CP = 10% OF MAX



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CANDELA TABULATION - FIELD ONLY

AVERAGE OF RIGHT AND LEFT SIDES

	0.0	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.5	22.5	25.5	29.0	33.0	37.5	42.5	47.5	55.0	65.0	75.0	85.0	90.0	
90.0																								
85.0																								
75.0																								
65.0																								
55.0																								
47.5																								
42.5																								
37.5																								
33.0																								
29.0	99.	98.	95.																					
25.5	155.	154.	152.	144.	134.	122.	111.	99.																
22.5	227.	228.	222.	211.	196.	176.	160.	141.	123.	107.														
19.5	325.	323.	313.	296.	275.	251.	225.	197.	170.	146.	118.													
17.0	421.	418.	404.	380.	357.	326.	296.	259.	223.	188.	148.	110.												
15.0	507.	504.	488.	461.	429.	392.	348.	305.	262.	221.	175.	125.												
13.0	594.	592.	577.	548.	508.	461.	412.	362.	310.	259.	200.	142.	101.											
11.0	682.	681.	664.	630.	584.	531.	475.	416.	355.	296.	227.	160.	110.											
9.0	759.	757.	741.	706.	656.	595.	530.	460.	396.	327.	251.	175.	117.											
7.0	829.	826.	810.	771.	713.	652.	581.	501.	431.	354.	266.	183.	125.											
5.0	881.	881.	862.	816.	761.	699.	624.	539.	454.	377.	280.	194.	133.											
3.0	924.	921.	897.	850.	791.	726.	646.	555.	467.	388.	291.	203.	135.											
1.0	944.	943.	920.	873.	813.	734.	651.	565.	476.	390.	295.	206.	137.											
0.0	944.	941.	922.	876.	814.	734.	654.	568.	480.	392.	295.	206.	137.											
-1.0	936.	933.	914.	872.	808.	732.	652.	565.	480.	393.	294.	205.	137.											
-3.0	911.	910.	888.	843.	782.	711.	632.	542.	463.	382.	289.	199.	133.											
-5.0	869.	866.	837.	795.	741.	670.	595.	513.	434.	360.	276.	193.	129.											
-7.0	794.	791.	767.	734.	681.	619.	552.	480.	407.	339.	256.	182.	123.											
-9.0	709.	709.	692.	659.	615.	560.	500.	433.	371.	307.	233.	168.	114.											
-11.0	620.	621.	610.	577.	538.	489.	438.	382.	328.	273.	210.	153.	105.											
-13.0	538.	537.	526.	495.	460.	418.	374.	328.	282.	237.	186.	135.												
-15.0	459.	457.	445.	421.	389.	352.	315.	275.	238.	202.	160.	115.												
-17.0	375.	374.	367.	350.	320.	293.	262.	229.	197.	170.	135.	99.												
-19.5	293.	291.	281.	267.	246.	221.	198.	176.	152.	128.	104.													
-22.5	197.	197.	193.	183.	170.	155.	141.	126.	109.															
-25.5	134.	133.	128.	123.	116.	104.																		
-29.0																								
-33.0																								
-37.5																								
-42.5																								
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LUMEN TABULATION

AVERAGE OF RIGHT AND LEFT SIDES

	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.9
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	1.3
35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
31	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4
27	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
24	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
21	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
18	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
16	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
14	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
12	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8
10	0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
8	1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
6	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7
4	1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.5	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
2	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
0	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1
-2	1.1	1.1	1.0	0.9	0.9	0.8	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9
-4	1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
-6	1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
-8	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
-10	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
-12	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
-14	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
-16	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
-18	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
-21	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
-24	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
-27	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
-31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
-35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
-40	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
-90	19.1	18.7	17.7	16.4	14.9	13.3	11.5	9.8	8.2	9.5	6.8	4.8	4.3	2.7	2.1	1.4	1.0	1.2	0.5	0.2	0.0	0.0	164.0

LUMEN TOTAL THIS PAGE = 164.0



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 PREPARED FOR: B-K LIGHTING, INC.

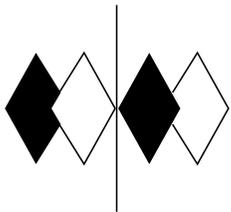
DATE: 12/24/09  
 REVISED: 02/01/10

LUMEN TABULATION - FIELD ONLY

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	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL	
90																							0.0	
80																							0.0	
70																							0.0	
60																							0.0	
50																							0.0	
45																							0.0	
40																							0.0	
35																							0.0	
31		0.2	0.2																				0.5	
27		0.3	0.3	0.3	0.2	0.2	0.2	0.2															1.7	
24		0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2													2.8	
21		0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3												4.3	
18		0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2											3.9	
16		0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2											4.6	
14		0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2										5.6	
12		0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.3	0.4	0.3	0.2										6.4	
10		0.9	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.2										7.1	
8		1.0	1.0	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2										7.8	
6		1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2										8.3	
4		1.1	1.1	1.0	1.0	0.9	0.8	0.7	0.5	0.5	0.5	0.3	0.2										8.6	
2		1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.3	0.2										8.7	
0		1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.3	0.2										8.7	
-2		1.1	1.1	1.0	0.9	0.9	0.8	0.6	0.5	0.4	0.5	0.3	0.2										8.5	
-4		1.1	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.5	0.3	0.2										8.0	
-6		1.0	0.9	0.9	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.2										7.4	
-8		0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.2										6.7	
-10		0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2										5.9	
-12		0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2											4.9	
-14		0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.2											4.2	
-16		0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2											3.5	
-18		0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3												3.8	
-21		0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2														2.3	
-24		0.2	0.2	0.2	0.2	0.2																	1.1	
-27																							0.0	
-31																							0.0	
-35																							0.0	
-40																							0.0	
-45																							0.0	
-50																							0.0	
-60																							0.0	
-70																							0.0	
-80																							0.0	
-90																							0.0	
	18.2	17.7	16.5	15.3	13.8	12.1	10.5	8.7	7.0	7.8	5.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.2

LUMEN TOTAL THIS PAGE = 135.2



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