

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com
REPORT NUMBER: ITL63765

DATE: 12/31/09
REVISED: 02/02/10
PAGE 1

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: NS-LED-e23-WFL-12; AR-LED-TR-e23-WFL-12-C; AR-LED-RM-e23-WFL-12-C;
DS-LED-e23-WFL-12; RM-LED-e23-WFL-12-C; SN-LED-e23-WFL-12-C;
ST-LED-e23-WFL-12-C; SF-LED-e23-WFL-12-C; TF-LED-e23-WFL-12-C;
WS-LED-e23-WFL-12; AW-LED-e23-WFL-12; SW-LED-e23-WFL-12; VS-LED-e23-WFL-12;
VQ-LED-e23-WFL-12; GD-LED-e23-WFL-12; GQ-LED-e23-WFL-12; EC-LED-e23-WFL-12;
ED-LED-e23-WFL-12; SM-AR-LED-e23-WFL-12-C

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, ONE CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED WITH FROSTED SURFACE OPPOSITE LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME, 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 = 8.3 AT 12.0 VOLTS

LED DRIVER: INTEGRAL

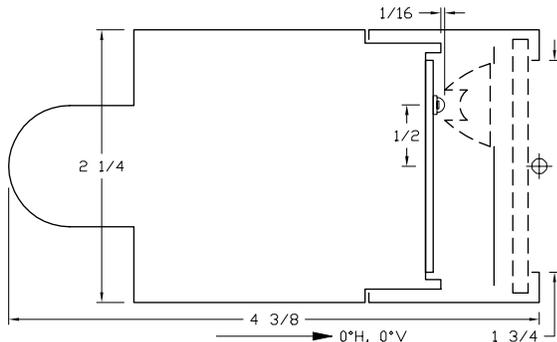
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (12VAC, 60Hz) TO THE LED DRIVER. LAMP INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

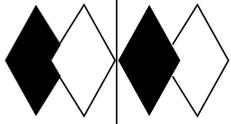
TEST DISTANCE = 25.25 FEET

FLOODLIGHT CHARACTERISTICS

IES TYPE	4H X 4V				AXIAL CANDLEPOWER		
MAXIMUM CANDLEPOWER	747.	AT	0.0 H,	0.0 V			
HORIZONTAL BEAM ANGLE (50%)	35.7 deg						
VERTICAL BEAM ANGLE (50%)	36.5 deg				DEG	HORIZ.	DEG
HORIZONTAL FIELD ANGLE (10%)	65.9 deg						VERT.
VERTICAL FIELD ANGLE (10%)	67.6 deg						
BEAM LUMENS (% FIXTURE)	169. (48.9 %)				90.0	0.	90.0
FIELD LUMENS (% FIXTURE)	298. (86.4 %)				85.0	1.	85.0
TOTAL LUMENS (% FIXTURE)	345. (100.0 %)				75.0	1.	75.0
EFFICACY = 41.6 Lm/W					65.0	3.	65.0
					55.0	6.	55.0
					47.5	12.	47.5
					42.5	22.	42.5
					37.5	42.	37.5
					33.0	74.	33.0
					29.0	119.	29.0
					25.5	177.	25.5
					22.5	243.	22.5
					19.5	323.	19.5
					17.0	398.	17.0
					15.0	462.	15.0
					13.0	525.	13.0
					11.0	584.	11.0
					9.0	637.	9.0
					7.0	679.	7.0
					5.0	711.	5.0
					3.0	732.	3.0
					1.0	745.	1.0
					0.0	747.	0.0
					-1.0	745.	-1.0
					-3.0	732.	-3.0
					-5.0	711.	-5.0
					-7.0	679.	-7.0
					-9.0	637.	-9.0
					-11.0	584.	-11.0
					-13.0	525.	-13.0
					-15.0	462.	-15.0
					-17.0	398.	-17.0
					-19.5	323.	-19.5
					-22.5	243.	-22.5
					-25.5	177.	-25.5
					-29.0	119.	-29.0
					-33.0	74.	-33.0
					-37.5	42.	-37.5
					-42.5	22.	-42.5
					-47.5	12.	-47.5
					-55.0	6.	-55.0
					-65.0	3.	-65.0
					-75.0	1.	-75.0
					-85.0	1.	-85.0
					-90.0	0.	-90.0



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



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 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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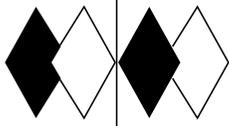
DATE: 12/31/09
 REVISED: 02/02/10

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.	0.	0.	0.	0.	1.	1.	1.	1.	1.	0.	1.	0.	0.	0.	0.	0.
75.0	1.	1.	1.	1.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.
65.0	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.
55.0	6.	6.	6.	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	4.	4.	3.	3.	2.	2.	1.	1.	0.	0.
47.5	13.	13.	13.	13.	13.	13.	12.	12.	11.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	2.	1.	0.	0.
42.5	24.	24.	24.	24.	24.	23.	22.	21.	19.	18.	16.	14.	12.	10.	8.	6.	5.	4.	3.	2.	1.	0.	0.
37.5	47.	47.	46.	46.	45.	43.	41.	38.	35.	32.	29.	24.	20.	16.	13.	9.	6.	5.	3.	2.	1.	1.	0.
33.0	83.	83.	82.	80.	77.	73.	69.	64.	59.	53.	47.	38.	31.	24.	18.	12.	8.	6.	3.	2.	1.	1.	0.
29.0	134.	134.	132.	128.	123.	116.	108.	99.	90.	81.	70.	57.	45.	34.	24.	16.	10.	7.	4.	2.	1.	1.	0.
25.5	197.	197.	193.	187.	178.	168.	155.	142.	128.	114.	97.	78.	61.	45.	31.	20.	12.	8.	4.	2.	1.	1.	0.
22.5	264.	264.	260.	251.	240.	225.	208.	188.	169.	149.	126.	99.	77.	56.	38.	24.	14.	8.	4.	2.	1.	1.	0.
19.5	345.	344.	337.	327.	312.	292.	268.	242.	216.	190.	158.	124.	95.	67.	45.	27.	16.	9.	5.	2.	1.	1.	0.
17.0	417.	416.	409.	396.	379.	354.	324.	293.	260.	227.	188.	146.	110.	78.	51.	31.	17.	10.	5.	2.	1.	1.	0.
15.0	478.	477.	468.	453.	432.	404.	371.	334.	296.	258.	213.	164.	123.	86.	55.	33.	18.	10.	5.	2.	1.	1.	0.
13.0	537.	536.	526.	509.	485.	454.	417.	375.	333.	289.	238.	182.	135.	93.	59.	35.	19.	11.	5.	2.	1.	1.	0.
11.0	593.	592.	581.	561.	536.	502.	460.	415.	367.	319.	262.	199.	147.	101.	63.	37.	20.	11.	5.	3.	1.	1.	0.
9.0	644.	641.	630.	609.	581.	545.	499.	450.	398.	345.	282.	214.	158.	107.	67.	39.	21.	11.	5.	3.	1.	1.	0.
7.0	684.	682.	670.	649.	621.	582.	533.	480.	423.	367.	298.	226.	166.	112.	70.	40.	21.	12.	6.	3.	1.	1.	0.
5.0	715.	713.	701.	681.	652.	612.	560.	503.	443.	384.	311.	236.	173.	115.	72.	41.	22.	12.	6.	3.	1.	1.	0.
3.0	734.	732.	720.	700.	670.	630.	577.	519.	456.	394.	316.	242.	177.	118.	73.	42.	22.	12.	6.	3.	1.	1.	0.
1.0	745.	743.	731.	710.	678.	637.	584.	525.	462.	399.	323.	244.	178.	119.	74.	42.	22.	12.	6.	3.	1.	1.	0.
0.0	747.	745.	732.	711.	679.	637.	584.	525.	462.	398.	323.	243.	177.	119.	74.	42.	22.	12.	6.	3.	1.	1.	0.
-1.0	745.	743.	730.	709.	676.	634.	581.	522.	459.	396.	321.	241.	176.	118.	73.	42.	22.	12.	6.	3.	1.	1.	0.
-3.0	731.	730.	718.	695.	664.	621.	567.	510.	449.	388.	313.	236.	172.	116.	72.	41.	22.	12.	6.	3.	1.	1.	0.
-5.0	708.	706.	694.	672.	641.	599.	547.	491.	432.	372.	301.	228.	166.	112.	70.	40.	21.	12.	6.	3.	1.	1.	0.
-7.0	675.	672.	659.	638.	608.	568.	519.	466.	408.	352.	285.	216.	159.	107.	67.	38.	20.	11.	6.	3.	1.	1.	0.
-9.0	628.	627.	615.	595.	567.	529.	484.	433.	379.	328.	266.	202.	148.	100.	63.	36.	19.	11.	5.	3.	1.	1.	0.
-11.0	576.	575.	565.	547.	521.	485.	442.	396.	347.	300.	245.	186.	137.	93.	59.	35.	19.	11.	5.	3.	1.	1.	0.
-13.0	520.	519.	510.	493.	468.	434.	396.	356.	312.	270.	221.	169.	125.	85.	54.	33.	18.	10.	5.	3.	1.	1.	0.
-15.0	463.	461.	452.	437.	413.	384.	349.	314.	277.	240.	197.	151.	112.	78.	50.	30.	17.	10.	5.	2.	1.	1.	0.
-17.0	401.	400.	393.	380.	359.	333.	303.	273.	241.	210.	172.	133.	100.	70.	45.	27.	16.	9.	5.	2.	1.	1.	0.
-19.5	330.	329.	322.	311.	295.	273.	249.	224.	199.	173.	143.	111.	85.	60.	39.	24.	14.	9.	5.	2.	1.	1.	0.
-22.5	250.	249.	245.	237.	225.	210.	191.	173.	154.	135.	112.	88.	68.	49.	33.	21.	12.	8.	5.	2.	1.	1.	0.
-25.5	184.	184.	181.	175.	167.	156.	142.	129.	116.	102.	86.	68.	53.	39.	27.	17.	11.	7.	4.	2.	1.	1.	0.
-29.0	126.	126.	124.	120.	114.	107.	98.	90.	81.	72.	61.	49.	39.	29.	20.	14.	9.	6.	4.	2.	1.	1.	0.
-33.0	79.	78.	77.	74.	71.	66.	62.	57.	52.	47.	41.	33.	27.	21.	15.	11.	7.	6.	4.	2.	1.	1.	0.
-37.5	44.	44.	43.	42.	41.	39.	37.	34.	32.	29.	25.	21.	18.	14.	11.	8.	6.	5.	3.	2.	1.	0.	0.
-42.5	23.	23.	23.	23.	22.	21.	20.	19.	18.	16.	15.	13.	11.	9.	8.	6.	5.	4.	3.	2.	1.	0.	0.
-47.5	13.	13.	13.	13.	12.	12.	11.	11.	10.	10.	9.	8.	7.	7.	6.	5.	4.	3.	2.	1.	1.	0.	0.
-55.0	6.	6.	5.	5.	5.	5.	5.	5.	5.	5.	5.	5.	4.	4.	4.	3.	3.	2.	1.	1.	0.	0.	0.
-65.0	2.	2.	2.	2.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.
-75.0	1.	1.	1.	1.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	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 = 374. CP = 50% OF MAX
 FIELD EDGE = 75. CP = 10% OF MAX



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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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	83.	83.	82.	80.	77.																			
29.0	134.	134.	132.	128.	123.	116.	108.	99.	90.	81.														
25.5	197.	197.	193.	187.	178.	168.	155.	142.	128.	114.	97.	78.												
22.5	264.	264.	260.	251.	240.	225.	208.	188.	169.	149.	126.	99.	77.											
19.5	345.	344.	337.	327.	312.	292.	268.	242.	216.	190.	158.	124.	95.											
17.0	417.	416.	409.	396.	379.	354.	324.	293.	260.	227.	188.	146.	110.	78.										
15.0	478.	477.	468.	453.	432.	404.	371.	334.	296.	258.	213.	164.	123.	86.										
13.0	537.	536.	526.	509.	485.	454.	417.	375.	333.	289.	238.	182.	135.	93.										
11.0	593.	592.	581.	561.	536.	502.	460.	415.	367.	319.	262.	199.	147.	101.										
9.0	644.	641.	630.	609.	581.	545.	499.	450.	398.	345.	282.	214.	158.	107.										
7.0	684.	682.	670.	649.	621.	582.	533.	480.	423.	367.	298.	226.	166.	112.										
5.0	715.	713.	701.	681.	652.	612.	560.	503.	443.	384.	311.	236.	173.	115.										
3.0	734.	732.	720.	700.	670.	630.	577.	519.	456.	394.	316.	242.	177.	118.										
1.0	745.	743.	731.	710.	678.	637.	584.	525.	462.	399.	323.	244.	178.	119.										
0.0	747.	745.	732.	711.	679.	637.	584.	525.	462.	398.	323.	243.	177.	119.										
-1.0	745.	743.	730.	709.	676.	634.	581.	522.	459.	396.	321.	241.	176.	118.										
-3.0	731.	730.	718.	695.	664.	621.	567.	510.	449.	388.	313.	236.	172.	116.										
-5.0	708.	706.	694.	672.	641.	599.	547.	491.	432.	372.	301.	228.	166.	112.										
-7.0	675.	672.	659.	638.	608.	568.	519.	466.	408.	352.	285.	216.	159.	107.										
-9.0	628.	627.	615.	595.	567.	529.	484.	433.	379.	328.	266.	202.	148.	100.										
-11.0	576.	575.	565.	547.	521.	485.	442.	396.	347.	300.	245.	186.	137.	93.										
-13.0	520.	519.	510.	493.	468.	434.	396.	356.	312.	270.	221.	169.	125.	85.										
-15.0	463.	461.	452.	437.	413.	384.	349.	314.	277.	240.	197.	151.	112.	78.										
-17.0	401.	400.	393.	380.	359.	333.	303.	273.	241.	210.	172.	133.	100.											
-19.5	330.	329.	322.	311.	295.	273.	249.	224.	199.	173.	143.	111.	85.											
-22.5	250.	249.	245.	237.	225.	210.	191.	173.	154.	135.	112.	88.												
-25.5	184.	184.	181.	175.	167.	156.	142.	129.	116.	102.	86.													
-29.0	126.	126.	124.	120.	114.	107.	98.	90.	81.															
-33.0	79.	78.	77.																					
-37.5																								
-42.5																								
-47.5																								
-55.0																								
-65.0																								
-75.0																								
-85.0																								
-90.0																								

BEAM EDGE = 374. CP = 50% OF MAX
 FIELD EDGE = 75. CP = 10% OF MAX



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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	0.2
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	0.4
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	0.7
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	0.1	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	1.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
35	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	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	2.3
31	0.3	0.3	0.3	0.3	0.3	0.3	0.2	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	3.4
27	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	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	3.6
24	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	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	4.8
21	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	6.1
18	0.5	0.5	0.5	0.5	0.4	0.4	0.3	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	4.9
16	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	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	5.5
14	0.7	0.6	0.6	0.6	0.5	0.5	0.4	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	6.1
12	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	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	6.8
10	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
8	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
6	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
4	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
2	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
0	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.4	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
-2	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
-4	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
-6	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6
-8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.4	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	7.0
-10	0.7	0.7	0.7	0.6	0.6	0.5	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	6.5
-12	0.6	0.6	0.6	0.6	0.5	0.5	0.4	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	5.8
-14	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.3	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	5.2
-16	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	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	4.5
-18	0.6	0.6	0.6	0.5	0.5	0.4	0.4	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	5.7
-21	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	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	4.4
-24	0.3	0.3	0.3	0.3	0.3	0.3	0.2	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	3.3
-27	0.3	0.3	0.3	0.3	0.3	0.2	0.2	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	3.1
-31	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
-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
-40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	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	0.9
-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	0.0	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
-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	0.3
-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	0.0	0.0	0.0	0.0	0.0	0.2
-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	17.9	17.5	17.0	16.1	15.1	13.7	12.3	10.8	9.4	11.4	8.7	6.4	5.8	3.7	2.7	1.5	0.9	0.9	0.4	0.1	0.0	0.0	172.3

LUMEN TOTAL THIS PAGE = 172.3



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 PREPARED FOR: B-K LIGHTING, INC.

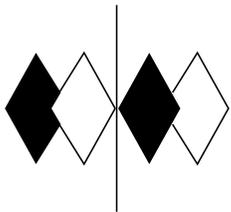
DATE: 12/31/09
 REVISED: 02/02/10

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	0.2	0.2																			0.8
27	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2														2.4
24	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.2												3.1
21	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2											4.3
18	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2											5.5
16	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2										4.6
14	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.4	0.3	0.2	0.2										5.2
12	0.7	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2										5.9
10	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.5	0.3	0.2	0.2										6.5
8	0.8	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.5	0.4	0.3	0.2										7.0
6	0.8	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.3	0.2										7.4
4	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.5	0.4	0.3	0.2										7.8
2	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.3	0.3										8.0
0	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.4	0.3	0.3										8.1
-2	0.9	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.5	0.6	0.4	0.3	0.3										8.1
-4	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.5	0.5	0.4	0.3	0.2										7.9
-6	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.5	0.4	0.3	0.2										7.6
-8	0.8	0.8	0.8	0.7	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.3	0.2										7.2
-10	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.4	0.5	0.3	0.2	0.2										6.7
-12	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.3	0.2	0.2										6.2
-14	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.2	0.2										5.6
-16	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2										4.9
-18	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.2	0.3	0.2	0.2											4.2
-21	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.2											5.1
-24	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.3	0.2												3.8
-27	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2													2.7
-31	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2															2.1
-35	0.2	0.2																					0.4
-40																							0.0
-45																							0.0
-50																							0.0
-60																							0.0
-70																							0.0
-80																							0.0
-90																							0.0
	17.2	16.9	16.2	15.4	14.1	12.9	11.5	10.1	8.5	10.1	7.4	5.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.9

LUMEN TOTAL THIS PAGE = 148.9



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