

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL83576

PAGE: 1 OF 7

ISSUE DATE: 12/03/14

REVISED: 11/11/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: K2-LED-X51-NFL-12, SM-AP-LED-X51-NFL-12, AP-LED-X51-NFL-12, TY2-LED-X51-NFL-12

LUMINAIRE: CAST METAL HOUSING WITH UNFINISHED BROWN INTERIOR FINISH, CAST METAL DRIVER HOUSING, MACHINED BLACK FINISHED CIRCUIT BOARD MOUNTING BLOCK, 1 CIRCUIT BOARD WITH ONE LED, MOLDED WHITE PLASTIC LED SURROUND, MOLDED MULTI-FACETED PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR MICRO-PRISMATIC FLAT GLASS LENS IN MACHINED WHITE PAINTED METAL FRAME. LENS PRISMS IN.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 120.0 VOLTS, 59.0 WATTS, 0.494 AMPS

LED DRIVER: THOMAS RESEARCH PRODUCTS PLED75W-054-C1400-D, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

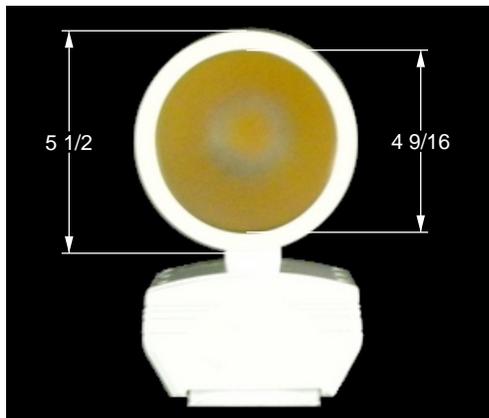
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE	4H X 4V	DEG	HORIZ.	DEG	VERT.
MAXIMUM CANDLEPOWER	23105. AT 0.0 H, 0.0 V	90.0	0.	90.0	0.
HORIZONTAL BEAM ANGLE (50%)	23.2 deg	85.0	21.	85.0	9.
VERTICAL BEAM ANGLE (50%)	22.6 deg	75.0	39.	75.0	24.
HORIZONTAL FIELD ANGLE (10%)	50.7 deg	65.0	59.	65.0	42.
VERTICAL FIELD ANGLE (10%)	50.4 deg	55.0	78.	55.0	73.
BEAM LUMENS (% FIXTURE)	2166. (38.9 %)	47.5	107.	47.5	95.
FIELD LUMENS (% FIXTURE)	4459. (80.0 %)	42.5	168.	42.5	142.
TOTAL LUMENS (% FIXTURE)	5571. (100.0 %)	37.5	364.	37.5	320.
EFFICACY = 94.4 lm/W		33.0	815.	33.0	779.
		29.0	1494.	29.0	1456.
		25.5	2270.	25.5	2187.
		22.5	3109.	22.5	2938.
		19.5	4284.	19.5	3990.
		17.0	5762.	17.0	5339.
		15.0	7447.	15.0	6926.
		13.0	9656.	13.0	9080.
		11.0	12374.	11.0	11796.
		9.0	15442.	9.0	14793.
		7.0	18566.	7.0	18096.
		5.0	21072.	5.0	20803.
		3.0	22488.	3.0	22400.
		1.0	23050.	1.0	23045.
		0.0	23105.	0.0	23105.
		-1.0	23050.	-1.0	23075.
		-3.0	22488.	-3.0	22569.
		-5.0	21072.	-5.0	21250.
		-7.0	18566.	-7.0	18485.
		-9.0	15442.	-9.0	15246.
		-11.0	12374.	-11.0	12112.
		-13.0	9656.	-13.0	9623.
		-15.0	7447.	-15.0	7452.
		-17.0	5762.	-17.0	5781.
		-19.5	4284.	-19.5	4202.
		-22.5	3109.	-22.5	3096.
		-25.5	2270.	-25.5	2276.
		-29.0	1494.	-29.0	1475.
		-33.0	815.	-33.0	764.
		-37.5	364.	-37.5	304.
		-42.5	168.	-42.5	135.
		-47.5	107.	-47.5	91.
		-55.0	78.	-55.0	71.
		-65.0	59.	-65.0	57.
		-75.0	39.	-75.0	38.
		-85.0	21.	-85.0	20.
		-90.0	0.	-90.0	0.



Checked *B HYRE*
Approved *R BEATTIE*
Lighting Engineer

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.



INDEPENDENT TESTING LABORATORIES, INC.
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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	9.	9.	11.	14.	17.	18.	20.	21.	21.	21.	21.	21.	20.	20.	19.	19.	19.	17.	15.	11.	9.	6.	0.	
75.0	24.	25.	28.	30.	31.	35.	38.	38.	38.	38.	37.	37.	36.	35.	34.	32.	30.	29.	26.	23.	17.	9.	0.	
65.0	42.	44.	47.	47.	50.	54.	57.	57.	57.	57.	56.	55.	54.	52.	50.	47.	45.	41.	36.	29.	23.	12.	0.	
55.0	73.	73.	73.	73.	73.	73.	72.	72.	72.	71.	70.	69.	68.	66.	64.	61.	57.	53.	46.	36.	26.	14.	0.	
47.5	95.	95.	94.	94.	94.	93.	92.	91.	89.	88.	86.	83.	81.	77.	74.	69.	65.	61.	53.	41.	29.	16.	0.	
42.5	142.	142.	139.	137.	136.	132.	128.	123.	117.	113.	107.	101.	95.	89.	82.	76.	70.	65.	57.	44.	31.	17.	0.	
37.5	320.	320.	309.	301.	294.	277.	257.	235.	213.	192.	166.	145.	125.	109.	95.	85.	76.	70.	61.	47.	32.	18.	0.	
33.0	779.	777.	747.	717.	675.	627.	570.	509.	450.	389.	314.	243.	191.	146.	114.	94.	82.	74.	64.	50.	34.	19.	0.	
29.0	1456.	1451.	1405.	1356.	1286.	1214.	1106.	990.	865.	739.	589.	429.	312.	216.	150.	111.	90.	78.	66.	52.	35.	19.	0.	
25.5	2187.	2182.	2125.	2057.	1959.	1857.	1709.	1550.	1378.	1191.	968.	711.	498.	323.	202.	132.	98.	82.	69.	53.	36.	20.	0.	
22.5	2938.	2932.	2856.	2767.	2640.	2503.	2326.	2118.	1886.	1650.	1361.	1023.	721.	452.	263.	157.	106.	85.	70.	54.	36.	20.	0.	
19.5	3990.	3977.	3850.	3706.	3501.	3277.	3034.	2757.	2461.	2160.	1800.	1375.	989.	616.	340.	187.	114.	89.	72.	56.	37.	20.	0.	
17.0	5339.	5317.	5106.	4865.	4523.	4157.	3786.	3386.	2996.	2616.	2183.	1682.	1226.	772.	416.	214.	123.	92.	73.	56.	37.	21.	0.	
15.0	6926.	6889.	6563.	6182.	5660.	5101.	4559.	3991.	3483.	3022.	2498.	1936.	1416.	901.	480.	237.	130.	95.	74.	57.	38.	21.	0.	
13.0	9080.	9020.	8547.	7961.	7168.	6321.	5521.	4710.	4009.	3438.	2812.	2173.	1600.	1027.	546.	261.	138.	97.	75.	57.	38.	21.	0.	
11.0	11796.	11710.	11065.	10215.	9071.	7832.	6699.	5561.	4626.	3880.	3126.	2397.	1771.	1148.	610.	285.	145.	100.	76.	58.	38.	21.	0.	
9.0	14793.	14717.	14061.	12696.	11281.	9577.	7970.	6515.	5303.	4343.	3436.	2603.	1924.	1253.	668.	306.	152.	102.	77.	58.	38.	21.	0.	
7.0	18096.	18003.	17164.	15443.	13596.	11403.	9351.	7509.	5969.	4802.	3725.	2780.	2053.	1343.	720.	325.	158.	104.	77.	59.	38.	21.	0.	
5.0	20803.	20715.	19870.	18019.	15783.	13163.	10590.	8439.	6577.	5214.	3953.	2925.	2155.	1413.	763.	341.	162.	105.	78.	59.	39.	21.	0.	
3.0	22400.	22325.	21541.	19928.	17405.	14552.	11682.	9173.	7088.	5534.	4141.	3028.	2224.	1463.	793.	352.	165.	107.	78.	59.	39.	21.	0.	
1.0	23045.	22964.	22362.	20915.	18395.	15342.	12278.	9590.	7392.	5722.	4261.	3093.	2262.	1489.	809.	361.	168.	107.	78.	59.	39.	21.	0.	
0.0	23105.	23050.	22488.	21072.	18566.	15442.	12374.	9656.	7447.	5762.	4284.	3109.	2270.	1494.	815.	364.	168.	107.	78.	59.	39.	21.	0.	
-1.0	23075.	23005.	22435.	21021.	18514.	15381.	12328.	9625.	7441.	5757.	4278.	3103.	2268.	1494.	816.	366.	168.	108.	78.	59.	39.	21.	0.	
-3.0	22569.	22457.	21788.	20258.	17722.	14719.	11833.	9316.	7233.	5622.	4196.	3049.	2234.	1465.	796.	357.	167.	107.	78.	59.	39.	21.	0.	
-5.0	21250.	21047.	20256.	18585.	16159.	13498.	10966.	8676.	6810.	5341.	4028.	2953.	2166.	1418.	765.	346.	164.	106.	78.	59.	39.	21.	0.	
-7.0	18485.	18579.	17748.	16171.	14081.	11900.	9745.	7793.	6230.	4958.	3802.	2812.	2067.	1348.	725.	332.	160.	105.	78.	59.	39.	21.	0.	
-9.0	15246.	15378.	14706.	13462.	11794.	10092.	8428.	6822.	5572.	4516.	3528.	2638.	1940.	1258.	677.	314.	155.	104.	77.	59.	38.	21.	0.	
-11.0	12112.	12061.	11591.	10716.	9543.	8371.	7108.	5865.	4897.	4049.	3225.	2432.	1779.	1152.	615.	293.	149.	102.	77.	59.	38.	21.	0.	
-13.0	9623.	9587.	9102.	8477.	7648.	6819.	5903.	4989.	4250.	3569.	2908.	2205.	1606.	1034.	552.	270.	142.	100.	76.	58.	38.	21.	0.	
-15.0	7452.	7427.	7086.	6658.	6095.	5506.	4883.	4217.	3665.	3126.	2558.	1952.	1420.	907.	487.	248.	136.	97.	76.	58.	38.	21.	0.	
-17.0	5781.	5678.	5533.	5258.	4883.	4465.	4005.	3559.	3118.	2710.	2227.	1694.	1228.	780.	422.	224.	129.	95.	75.	57.	38.	21.	0.	
-19.5	4202.	4250.	4163.	4006.	3777.	3510.	3202.	2878.	2548.	2224.	1829.	1381.	988.	621.	349.	196.	121.	91.	74.	57.	37.	20.	0.	
-22.5	3096.	3092.	3082.	2983.	2835.	2630.	2416.	2180.	1931.	1683.	1374.	1026.	724.	459.	273.	165.	111.	88.	72.	56.	37.	20.	0.	
-25.5	2276.	2272.	2262.	2190.	2053.	1905.	1748.	1567.	1387.	1196.	965.	710.	501.	330.	212.	140.	102.	84.	71.	55.	36.	20.	0.	
-29.0	1475.	1471.	1447.	1417.	1316.	1219.	1113.	980.	860.	723.	581.	429.	317.	223.	157.	116.	93.	81.	69.	53.	35.	19.	0.	
-33.0	764.	762.	745.	731.	668.	613.	561.	496.	441.	381.	315.	247.	195.	152.	117.	97.	85.	77.	66.	51.	34.	19.	0.	
-37.5	304.	303.	304.	299.	281.	267.	250.	230.	210.	188.	165.	145.	127.	111.	97.	87.	79.	73.	64.	49.	33.	18.	0.	
-42.5	135.	135.	136.	135.	131.	128.	124.	120.	115.	109.	105.	99.	94.	89.	83.	78.	73.	68.	60.	46.	31.	17.	0.	
-47.5	91.	90.	91.	91.	90.	89.	88.	87.	86.	85.	84.	82.	80.	78.	75.	72.	68.	64.	56.	43.	30.	16.	0.	
-55.0	71.	71.	71.	71.	71.	71.	71.	71.	70.	70.	70.	70.	69.	68.	66.	64.	60.	56.	48.	37.	27.	14.	0.	
-65.0	57.	57.	57.	57.	57.	57.	57.	57.	57.	57.	56.	56.	55.	54.	52.	50.	47.	43.	37.	30.	24.	12.	0.	
-75.0	38.	38.	38.	38.	38.	39.	39.	39.	39.	39.	39.	38.	37.	37.	36.	35.	33.	31.	30.	27.	24.	18.	9.	0.
-85.0	20.	20.	21.	22.	22.	22.	22.	21.	21.	21.	21.	21.	21.	21.	20.	19.	19.	19.	18.	15.	12.	9.	6.	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.	0.

BEAM EDGE = 11553. CP = 50% OF MAX
FIELD EDGE = 2311. CP = 10% OF MAX

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



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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																								
25.5																								
22.5	2938.	2932.	2856.	2767.	2640.	2503.	2326.																	
19.5	3990.	3977.	3850.	3706.	3501.	3277.	3034.	2757.	2461.															
17.0	5339.	5317.	5106.	4865.	4523.	4157.	3786.	3386.	2996.	2616.														
15.0	6926.	6889.	6563.	6182.	5660.	5101.	4559.	3991.	3483.	3022.	2498.													
13.0	9080.	9020.	8547.	7961.	7168.	6321.	5521.	4710.	4009.	3438.	2812.													
11.0	11796.	11710.	11065.	10215.	9071.	7832.	6699.	5561.	4626.	3880.	3126.	2397.												
9.0	14793.	14717.	14061.	12696.	11281.	9577.	7970.	6515.	5303.	4343.	3436.	2603.												
7.0	18096.	18003.	17164.	15443.	13596.	11403.	9351.	7509.	5969.	4802.	3725.	2780.												
5.0	20803.	20715.	19870.	18019.	15783.	13163.	10590.	8439.	6577.	5214.	3953.	2925.												
3.0	22400.	22325.	21541.	19928.	17405.	14552.	11682.	9173.	7088.	5534.	4141.	3028.												
1.0	23045.	22964.	22362.	20915.	18395.	15342.	12278.	9590.	7392.	5722.	4261.	3093.												
0.0	23105.	23050.	22488.	21072.	18566.	15442.	12374.	9656.	7447.	5762.	4284.	3109.												
-1.0	23075.	23005.	22435.	21021.	18514.	15381.	12328.	9625.	7441.	5757.	4278.	3103.												
-3.0	22569.	22457.	21788.	20258.	17722.	14719.	11833.	9316.	7233.	5622.	4196.	3049.												
-5.0	21250.	21047.	20256.	18585.	16159.	13498.	10966.	8676.	6810.	5341.	4028.	2953.												
-7.0	18485.	18579.	17748.	16171.	14081.	11900.	9745.	7793.	6230.	4958.	3802.	2812.												
-9.0	15246.	15378.	14706.	13462.	11794.	10092.	8428.	6822.	5572.	4516.	3528.	2638.												
-11.0	12112.	12061.	11591.	10716.	9543.	8371.	7108.	5865.	4897.	4049.	3225.	2432.												
-13.0	9623.	9587.	9102.	8477.	7648.	6819.	5903.	4989.	4250.	3569.	2908.													
-15.0	7452.	7427.	7086.	6658.	6095.	5506.	4883.	4217.	3665.	3126.	2558.													
-17.0	5781.	5678.	5533.	5258.	4883.	4465.	4005.	3559.	3118.	2710.														
-19.5	4202.	4250.	4163.	4006.	3777.	3510.	3202.	2878.	2548.															
-22.5	3096.	3092.	3082.	2983.	2835.	2630.	2416.																	
-25.5																								
-29.0																								
-33.0																								
-37.5																								
-42.5																								
-47.5																								
-55.0																								
-65.0																								
-75.0																								
-85.0																								
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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.	3.
80	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.	1.	1.	1.	1.	0.	1.	0.	0.	0.	8.
60	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	10.
50	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.	0.	0.	0.	8.
40	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.	1.	0.	0.	0.	12.
35	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	19.
31	4.	3.	3.	3.	3.	3.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	33.
27	4.	4.	4.	4.	3.	3.	3.	2.	2.	3.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	38.
24	5.	5.	5.	5.	5.	4.	4.	3.	3.	4.	3.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	51.
21	7.	7.	7.	6.	6.	5.	5.	4.	4.	5.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	67.
18	6.	6.	6.	5.	5.	5.	4.	4.	3.	4.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	57.
16	8.	8.	8.	7.	6.	5.	5.	4.	4.	4.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	69.
14	11.	10.	10.	9.	8.	7.	6.	5.	4.	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	84.
12	14.	13.	12.	11.	9.	8.	7.	5.	5.	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	103.
10	18.	17.	15.	14.	12.	10.	8.	6.	5.	6.	4.	3.	3.	1.	1.	0.	0.	0.	0.	0.	0.	0.	123.
8	22.	21.	19.	16.	14.	11.	9.	7.	6.	6.	5.	3.	3.	1.	1.	0.	0.	0.	0.	0.	0.	0.	145.
6	25.	24.	22.	19.	16.	13.	10.	8.	6.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	164.
4	27.	26.	24.	21.	18.	14.	11.	8.	6.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	178.
2	28.	27.	25.	22.	18.	15.	11.	9.	7.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	186.
0	28.	27.	26.	22.	19.	15.	11.	9.	7.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	187.
-2	27.	27.	25.	21.	18.	14.	11.	9.	7.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	181.
-4	26.	25.	23.	20.	16.	13.	10.	8.	6.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.	0.	0.	168.
-6	23.	22.	20.	17.	14.	12.	9.	7.	6.	7.	5.	3.	3.	1.	1.	0.	0.	0.	0.	0.	0.	0.	150.
-8	19.	18.	16.	14.	12.	10.	8.	7.	5.	6.	4.	3.	3.	1.	1.	0.	0.	0.	0.	0.	0.	0.	129.
-10	15.	14.	13.	12.	10.	9.	7.	6.	5.	6.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	107.
-12	12.	11.	10.	9.	8.	7.	6.	5.	4.	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	89.
-14	9.	9.	8.	7.	7.	6.	5.	4.	4.	4.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	73.
-16	7.	7.	6.	6.	5.	5.	4.	4.	3.	4.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	60.
-18	8.	8.	7.	7.	6.	6.	5.	4.	4.	5.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	71.
-21	6.	6.	5.	5.	5.	4.	4.	3.	3.	4.	3.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	53.
-24	4.	4.	4.	4.	3.	3.	3.	2.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	39.
-27	4.	4.	3.	3.	3.	3.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	34.
-31	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	19.
-35	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.	1.	0.	0.	0.	12.
-40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	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.	6.
-50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	11.
-60	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	0.	1.	0.	0.	0.	8.
-70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.
-80	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
-90	376.	362.	335.	298.	257.	216.	177.	145.	118.	139.	103.	75.	65.	37.	25.	16.	12.	16.	9.	4.	1.	2785.	

LUMEN TOTAL THIS PAGE = 2785.



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PREPARED FOR: B-K LIGHTING, INC.

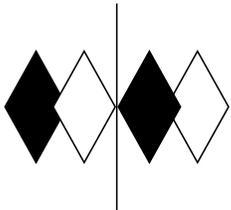
PAGE: 5 OF 7
REVISED: 11/11/15

LUMEN TABULATION - FIELD ONLY

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.
80																							0.
70																							0.
60																							0.
50																							0.
45																							0.
40																							0.
35																							0.
31																							0.
27																							0.
24																							0.
21	5.	5.	5.	5.	5.	4.																	29.
18	7.	7.	7.	6.	6.	5.	5.	4.															48.
16	6.	6.	6.	5.	5.	5.	4.	4.	3.														44.
14	8.	8.	8.	7.	6.	5.	5.	4.	4.	4.													59.
12	11.	10.	10.	9.	8.	7.	6.	5.	4.	5.													73.
10	14.	13.	12.	11.	9.	8.	7.	5.	5.	5.	4.												95.
8	18.	17.	15.	14.	12.	10.	8.	6.	5.	6.	4.												114.
6	22.	21.	19.	16.	14.	11.	9.	7.	6.	6.	5.												136.
4	25.	24.	22.	19.	16.	13.	10.	8.	6.	7.	5.												154.
2	27.	26.	24.	21.	18.	14.	11.	8.	6.	7.	5.												168.
0	28.	27.	25.	22.	18.	15.	11.	9.	7.	7.	5.												175.
-2	28.	27.	26.	22.	19.	15.	11.	9.	7.	7.	5.												176.
-4	27.	27.	25.	21.	18.	14.	11.	9.	7.	7.	5.												170.
-6	26.	25.	23.	20.	16.	13.	10.	8.	6.	7.	5.												158.
-8	23.	22.	20.	17.	14.	12.	9.	7.	6.	7.	5.												141.
-10	19.	18.	16.	14.	12.	10.	8.	7.	5.	6.	4.												120.
-12	15.	14.	13.	12.	10.	9.	7.	6.	5.	6.	4.												99.
-14	12.	11.	10.	9.	8.	7.	6.	5.	4.	5.													78.
-16	9.	9.	8.	7.	7.	6.	5.	4.	4.	4.													63.
-18	7.	7.	6.	6.	5.	5.	4.	4.	3.														47.
-21	8.	8.	7.	7.	6.	6.	5.	4.															51.
-24	6.	6.	5.	5.	5.	4.																	31.
-27																							0.
-31																							0.
-35																							0.
-40																							0.
-45																							0.
-50																							0.
-60																							0.
-70																							0.
-80																							0.
-90																							0.
	351.	338.	312.	276.	236.	196.	152.	123.	91.	97.	57.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2230.

LUMEN TOTAL THIS PAGE = 2230.

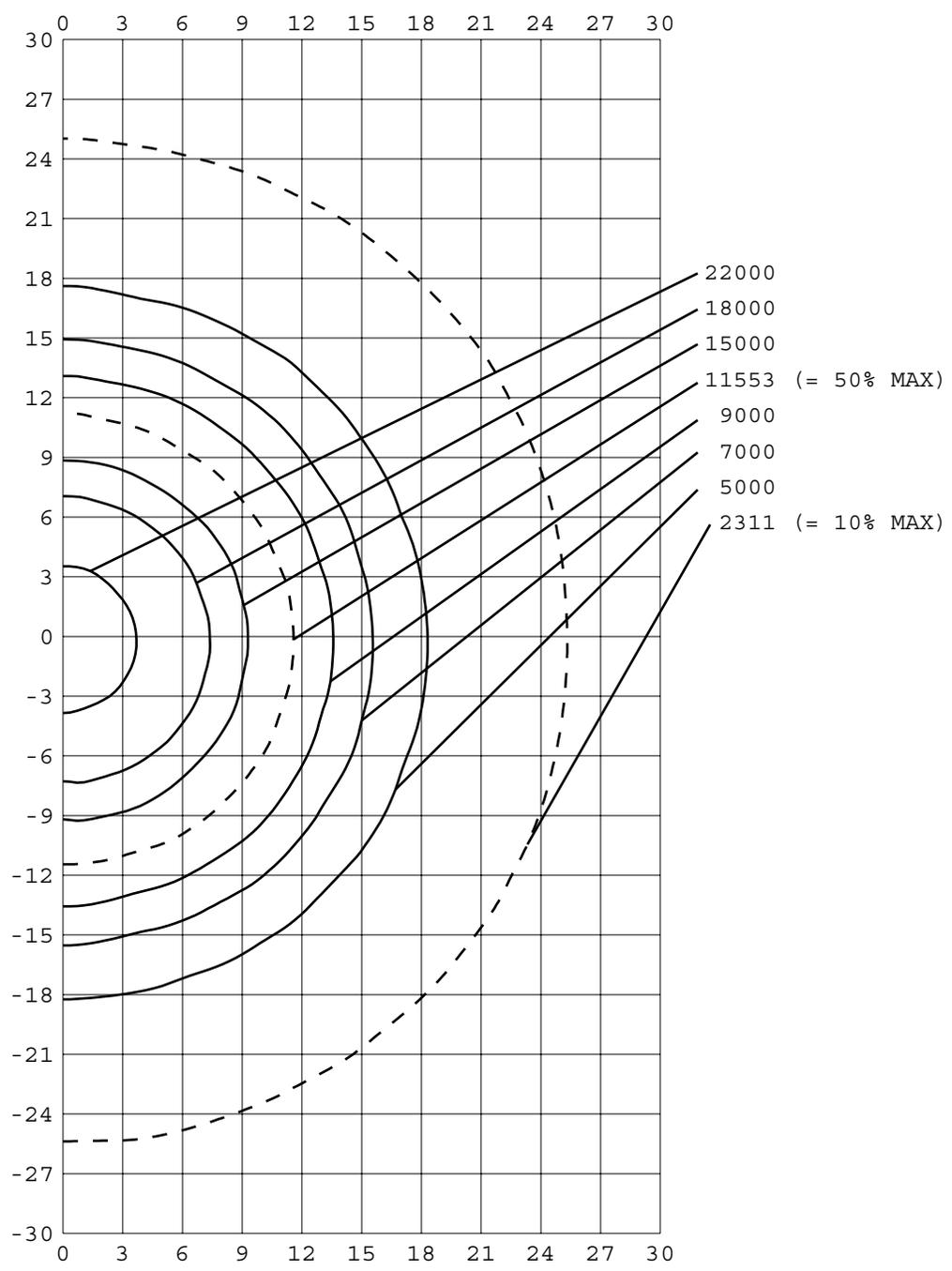


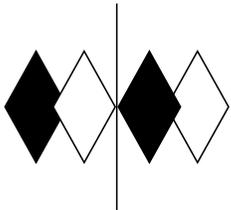
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ISOCANDELA CURVES

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