

itl boulder
 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
 4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

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

REPORT NUMBER: ITL83571

PAGE: 1 OF 7

ISSUE DATE: 12/02/14

REVISED: 11/10/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: K2-LED-X45-NFL-12, SM-AP-LED-X45-NFL-12, AP-LED-X45-NFL-12, TY2-LED-X45-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 PLASTIC REFLECTOR WITH TEXTURED SEMI-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, 34.7 WATTS, 0.292 AMPS

LED DRIVER: ELDOLED ECODRIVE 561/S, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST. CLIENT STATES DRIVER PROGRAMMED FOR 1050mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

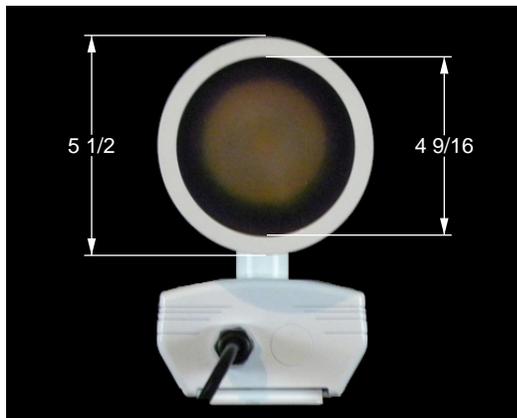
TEST DISTANCE = 20.0 FEET

AXIAL CANDLEPOWER

FLOODLIGHT CHARACTERISTICS

IES TYPE	4H X 4V		
MAXIMUM CANDLEPOWER	5908.	AT 0.0 H,	0.0 V
HORIZONTAL BEAM ANGLE (50%)	28.5 deg		
VERTICAL BEAM ANGLE (50%)	28.8 deg		
HORIZONTAL FIELD ANGLE (10%)	61.5 deg		
VERTICAL FIELD ANGLE (10%)	62.0 deg		
BEAM LUMENS (% FIXTURE)	818. (39.3 %)		
FIELD LUMENS (% FIXTURE)	1799. (86.4 %)		
TOTAL LUMENS (% FIXTURE)	2081. (100.0 %)		
EFFICACY = 60.0 lm/W			

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	7.	85.0	3.
75.0	14.	75.0	9.
65.0	22.	65.0	19.
55.0	30.	55.0	34.
47.5	44.	47.5	56.
42.5	72.	42.5	101.
37.5	171.	37.5	217.
33.0	387.	33.0	464.
29.0	750.	29.0	844.
25.5	1110.	25.5	1207.
22.5	1435.	22.5	1534.
19.5	1859.	19.5	1966.
17.0	2305.	17.0	2417.
15.0	2753.	15.0	2857.
13.0	3280.	13.0	3365.
11.0	3864.	11.0	3923.
9.0	4439.	9.0	4422.
7.0	4962.	7.0	4949.
5.0	5405.	5.0	5392.
3.0	5719.	3.0	5718.
1.0	5892.	1.0	5889.
0.0	5908.	0.0	5908.
-1.0	5892.	-1.0	5889.
-3.0	5719.	-3.0	5725.
-5.0	5405.	-5.0	5424.
-7.0	4962.	-7.0	4992.
-9.0	4439.	-9.0	4454.
-11.0	3864.	-11.0	3859.
-13.0	3280.	-13.0	3271.
-15.0	2753.	-15.0	2733.
-17.0	2305.	-17.0	2264.
-19.5	1859.	-19.5	1792.
-22.5	1435.	-22.5	1373.
-25.5	1110.	-25.5	1053.
-29.0	750.	-29.0	701.
-33.0	387.	-33.0	364.
-37.5	171.	-37.5	154.
-42.5	72.	-42.5	63.
-47.5	44.	-47.5	40.
-55.0	30.	-55.0	28.
-65.0	22.	-65.0	20.
-75.0	14.	-75.0	13.
-85.0	7.	-85.0	6.
-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.



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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	3.	3.	4.	5.	6.	6.	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	6.	5.	4.	2.	1.	0.
75.0	9.	9.	10.	11.	12.	13.	14.	14.	14.	14.	14.	14.	13.	13.	13.	12.	11.	11.	9.	8.	6.	2.	0.
65.0	19.	19.	20.	20.	20.	22.	22.	22.	22.	22.	21.	21.	21.	20.	19.	18.	17.	16.	13.	11.	8.	3.	0.
55.0	34.	34.	34.	34.	34.	33.	33.	32.	32.	31.	30.	29.	28.	27.	25.	24.	22.	20.	17.	14.	10.	4.	0.
47.5	56.	56.	56.	55.	54.	52.	51.	49.	47.	45.	43.	40.	38.	35.	32.	29.	26.	23.	20.	16.	10.	5.	0.
42.5	101.	100.	100.	97.	93.	89.	85.	79.	73.	67.	61.	55.	48.	43.	38.	33.	29.	26.	22.	17.	11.	5.	0.
37.5	217.	212.	213.	208.	198.	186.	172.	159.	144.	128.	107.	89.	73.	59.	48.	39.	32.	28.	23.	18.	12.	6.	0.
33.0	464.	464.	454.	435.	404.	374.	341.	310.	275.	241.	201.	155.	120.	87.	61.	46.	36.	31.	25.	19.	12.	6.	0.
29.0	844.	843.	826.	788.	749.	701.	640.	572.	497.	421.	340.	256.	191.	131.	86.	57.	41.	33.	26.	19.	13.	6.	0.
25.5	1207.	1206.	1190.	1148.	1103.	1040.	967.	880.	782.	676.	546.	398.	285.	190.	118.	70.	46.	35.	27.	20.	13.	7.	0.
22.5	1534.	1532.	1512.	1458.	1405.	1333.	1247.	1147.	1038.	922.	762.	567.	398.	254.	152.	85.	51.	37.	27.	20.	13.	7.	0.
19.5	1966.	1956.	1922.	1842.	1760.	1656.	1537.	1411.	1282.	1155.	980.	753.	537.	335.	191.	101.	55.	38.	28.	21.	14.	7.	0.
17.0	2417.	2407.	2358.	2250.	2129.	1986.	1824.	1657.	1495.	1342.	1150.	907.	662.	408.	224.	115.	59.	40.	29.	21.	14.	7.	0.
15.0	2857.	2847.	2775.	2637.	2473.	2289.	2086.	1876.	1676.	1493.	1277.	1018.	760.	473.	253.	127.	62.	41.	29.	21.	14.	7.	0.
13.0	3365.	3356.	3266.	3083.	2873.	2634.	2377.	2117.	1866.	1645.	1390.	1117.	849.	535.	282.	138.	65.	42.	29.	21.	14.	7.	0.
11.0	3923.	3901.	3797.	3573.	3310.	3005.	2688.	2370.	2064.	1800.	1504.	1205.	925.	595.	308.	147.	67.	43.	30.	21.	14.	7.	0.
9.0	4422.	4452.	4328.	4072.	3752.	3383.	2997.	2621.	2255.	1954.	1619.	1282.	986.	643.	335.	155.	69.	43.	30.	22.	14.	7.	0.
7.0	4949.	4959.	4825.	4566.	4180.	3749.	3296.	2859.	2433.	2085.	1710.	1339.	1036.	684.	355.	161.	71.	44.	30.	22.	14.	7.	0.
5.0	5392.	5389.	5237.	4955.	4540.	4066.	3558.	3059.	2584.	2194.	1781.	1388.	1073.	718.	371.	167.	72.	44.	30.	22.	14.	7.	0.
3.0	5718.	5709.	5540.	5239.	4800.	4294.	3746.	3204.	2695.	2269.	1834.	1421.	1097.	737.	382.	171.	72.	44.	30.	22.	14.	7.	0.
1.0	5889.	5876.	5701.	5389.	4942.	4420.	3850.	3273.	2748.	2306.	1864.	1434.	1109.	747.	387.	172.	73.	44.	30.	22.	14.	7.	0.
0.0	5908.	5892.	5719.	5405.	4962.	4439.	3864.	3280.	2753.	2305.	1859.	1435.	1110.	750.	387.	171.	72.	44.	30.	22.	14.	7.	0.
-1.0	5889.	5866.	5697.	5385.	4950.	4424.	3851.	3268.	2744.	2297.	1848.	1430.	1106.	748.	386.	170.	71.	43.	30.	22.	14.	7.	0.
-3.0	5725.	5693.	5547.	5242.	4811.	4292.	3740.	3175.	2679.	2248.	1810.	1405.	1083.	732.	377.	165.	70.	43.	30.	22.	14.	7.	0.
-5.0	5424.	5372.	5239.	4951.	4539.	4049.	3534.	3012.	2553.	2152.	1744.	1359.	1053.	704.	359.	158.	68.	43.	30.	22.	14.	7.	0.
-7.0	4992.	4927.	4782.	4542.	4165.	3720.	3260.	2794.	2388.	2020.	1651.	1299.	1005.	663.	338.	150.	65.	42.	30.	22.	14.	7.	0.
-9.0	4454.	4387.	4261.	4021.	3720.	3336.	2943.	2538.	2187.	1867.	1546.	1228.	945.	613.	310.	141.	63.	41.	29.	22.	14.	7.	0.
-11.0	3859.	3800.	3693.	3491.	3244.	2930.	2602.	2267.	1974.	1705.	1435.	1144.	872.	557.	282.	130.	60.	40.	29.	21.	14.	7.	0.
-13.0	3271.	3222.	3130.	2973.	2784.	2533.	2269.	1997.	1763.	1544.	1314.	1048.	786.	493.	253.	119.	57.	39.	29.	21.	14.	7.	0.
-15.0	2733.	2698.	2627.	2506.	2343.	2165.	1960.	1746.	1566.	1386.	1187.	941.	691.	428.	222.	107.	54.	38.	28.	21.	14.	7.	0.
-17.0	2264.	2238.	2189.	2099.	1976.	1841.	1689.	1522.	1380.	1231.	1052.	824.	591.	362.	193.	96.	51.	37.	28.	21.	14.	7.	0.
-19.5	1792.	1777.	1746.	1685.	1604.	1509.	1405.	1279.	1164.	1043.	878.	665.	467.	287.	158.	83.	48.	36.	28.	21.	13.	7.	0.
-22.5	1373.	1364.	1346.	1306.	1254.	1187.	1115.	1020.	921.	809.	660.	483.	336.	211.	121.	69.	44.	34.	27.	20.	13.	7.	0.
-25.5	1053.	1045.	1028.	999.	956.	903.	840.	754.	664.	571.	455.	328.	233.	151.	92.	58.	41.	32.	26.	20.	13.	7.	0.
-29.0	701.	693.	682.	657.	622.	577.	522.	463.	399.	340.	272.	202.	147.	98.	67.	48.	37.	31.	25.	19.	13.	6.	0.
-33.0	364.	359.	352.	338.	318.	291.	264.	237.	210.	184.	150.	115.	88.	65.	50.	40.	33.	29.	24.	19.	12.	6.	0.
-37.5	154.	157.	153.	148.	141.	130.	123.	112.	101.	91.	77.	65.	55.	47.	40.	35.	30.	27.	23.	18.	12.	6.	0.
-42.5	63.	64.	64.	63.	61.	59.	57.	55.	52.	49.	46.	43.	39.	36.	33.	30.	27.	25.	22.	16.	11.	5.	0.
-47.5	40.	40.	40.	40.	39.	39.	38.	38.	37.	36.	35.	34.	32.	31.	29.	27.	25.	23.	20.	15.	10.	5.	0.
-55.0	28.	28.	28.	28.	28.	28.	28.	28.	27.	27.	27.	26.	26.	25.	24.	23.	21.	20.	17.	13.	9.	4.	0.
-65.0	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	20.	19.	19.	18.	17.	16.	15.	13.	10.	8.	3.	0.
-75.0	13.	13.	13.	13.	13.	13.	13.	13.	13.	13.	13.	13.	12.	12.	12.	11.	11.	10.	9.	8.	6.	2.	0.
-85.0	6.	6.	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	6.	6.	6.	6.	5.	4.	3.	2.	1.	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 = 2954. CP = 50% OF MAX
FIELD EDGE = 591. CP = 10% OF MAX

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REVISED: 11/10/15

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	844.	843.	826.	788.	749.	701.	640.																	
25.5	1207.	1206.	1190.	1148.	1103.	1040.	967.	880.	782.	676.														
22.5	1534.	1532.	1512.	1458.	1405.	1333.	1247.	1147.	1038.	922.	762.													
19.5	1966.	1956.	1922.	1842.	1760.	1656.	1537.	1411.	1282.	1155.	980.	753.												
17.0	2417.	2407.	2358.	2250.	2129.	1986.	1824.	1657.	1495.	1342.	1150.	907.	662.											
15.0	2857.	2847.	2775.	2637.	2473.	2289.	2086.	1876.	1676.	1493.	1277.	1018.	760.											
13.0	3365.	3356.	3266.	3083.	2873.	2634.	2377.	2117.	1866.	1645.	1390.	1117.	849.											
11.0	3923.	3901.	3797.	3573.	3310.	3005.	2688.	2370.	2064.	1800.	1504.	1205.	925.	595.										
9.0	4422.	4452.	4328.	4072.	3752.	3383.	2997.	2621.	2255.	1954.	1619.	1282.	986.	643.										
7.0	4949.	4959.	4825.	4566.	4180.	3749.	3296.	2859.	2433.	2085.	1710.	1339.	1036.	684.										
5.0	5392.	5389.	5237.	4955.	4540.	4066.	3558.	3059.	2584.	2194.	1781.	1388.	1073.	718.										
3.0	5718.	5709.	5540.	5239.	4800.	4294.	3746.	3204.	2695.	2269.	1834.	1421.	1097.	737.										
1.0	5889.	5876.	5701.	5389.	4942.	4420.	3850.	3273.	2748.	2306.	1864.	1434.	1109.	747.										
0.0	5908.	5892.	5719.	5405.	4962.	4439.	3864.	3280.	2753.	2305.	1859.	1435.	1110.	750.										
-1.0	5889.	5866.	5697.	5385.	4950.	4424.	3851.	3268.	2744.	2297.	1848.	1430.	1106.	748.										
-3.0	5725.	5693.	5547.	5242.	4811.	4292.	3740.	3175.	2679.	2248.	1810.	1405.	1083.	732.										
-5.0	5424.	5372.	5239.	4951.	4539.	4049.	3534.	3012.	2553.	2152.	1744.	1359.	1053.	704.										
-7.0	4992.	4927.	4782.	4542.	4165.	3720.	3260.	2794.	2388.	2020.	1651.	1299.	1005.	663.										
-9.0	4454.	4387.	4261.	4021.	3720.	3336.	2943.	2538.	2187.	1867.	1546.	1228.	945.	613.										
-11.0	3859.	3800.	3693.	3491.	3244.	2930.	2602.	2267.	1974.	1705.	1435.	1144.	872.											
-13.0	3271.	3222.	3130.	2973.	2784.	2533.	2269.	1997.	1763.	1544.	1314.	1048.	786.											
-15.0	2733.	2698.	2627.	2506.	2343.	2165.	1960.	1746.	1566.	1386.	1187.	941.	691.											
-17.0	2264.	2238.	2189.	2099.	1976.	1841.	1689.	1522.	1380.	1231.	1052.	824.	591.											
-19.5	1792.	1777.	1746.	1685.	1604.	1509.	1405.	1279.	1164.	1043.	878.	665.												
-22.5	1373.	1364.	1346.	1306.	1254.	1187.	1115.	1020.	921.	809.	660.													
-25.5	1053.	1045.	1028.	999.	956.	903.	840.	754.	664.															
-29.0	701.	693.	682.	657.	622.																			
-33.0																								
-37.5																								
-42.5																								
-47.5																								
-55.0																								
-65.0																								
-75.0																								
-85.0																								
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PAGE: 4 OF 7
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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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.0
80	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	0.1	0.1	0.2	0.1	0.0	0.0	2.0
70	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	3.1
60	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.2	0.1	0.0	4.4
50	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.0	3.0
45	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	4.3
40	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	7.5
35	1.1	1.1	1.1	1.0	0.9	0.8	0.7	0.6	0.6	0.7	0.5	0.4	0.4	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	11.0
31	2.1	2.0	1.9	1.8	1.7	1.5	1.4	1.2	1.0	1.2	0.9	0.6	0.6	0.4	0.3	0.2	0.1	0.2	0.1	0.0	0.0	0.0	19.0
27	2.2	2.2	2.1	2.0	1.9	1.7	1.6	1.4	1.2	1.4	1.0	0.7	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	21.1
24	2.8	2.8	2.7	2.5	2.4	2.2	2.0	1.8	1.6	2.0	1.4	1.0	0.8	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	27.4
21	3.6	3.5	3.4	3.2	3.0	2.8	2.5	2.3	2.0	2.5	1.9	1.3	1.1	0.6	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	34.5
18	2.9	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6	2.0	1.5	1.1	0.9	0.5	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	27.6
16	3.5	3.4	3.2	3.0	2.8	2.5	2.2	2.0	1.7	2.2	1.7	1.3	1.0	0.5	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	31.6
14	4.1	4.0	3.7	3.5	3.2	2.8	2.5	2.2	1.9	2.4	1.9	1.4	1.1	0.6	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	36.1
12	4.8	4.6	4.3	4.0	3.6	3.2	2.8	2.4	2.1	2.6	2.0	1.5	1.3	0.6	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	40.7
10	5.4	5.3	4.9	4.5	4.1	3.6	3.1	2.7	2.3	2.8	2.2	1.6	1.4	0.7	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	45.3
8	6.0	5.9	5.5	5.1	4.5	3.9	3.4	2.9	2.4	2.9	2.3	1.7	1.5	0.7	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	49.6
6	6.6	6.4	6.0	5.5	4.9	4.3	3.6	3.0	2.6	3.1	2.3	1.8	1.5	0.8	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	53.1
4	7.0	6.7	6.4	5.8	5.2	4.5	3.8	3.2	2.6	3.2	2.4	1.8	1.6	0.8	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	55.7
2	7.2	6.9	6.5	6.0	5.3	4.6	3.9	3.2	2.7	3.2	2.4	1.8	1.6	0.8	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	57.0
0	7.1	6.9	6.5	6.0	5.3	4.6	3.9	3.2	2.7	3.2	2.4	1.8	1.6	0.8	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	57.0
-2	6.9	6.7	6.4	5.8	5.2	4.5	3.8	3.2	2.6	3.1	2.4	1.8	1.6	0.8	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	55.5
-4	6.5	6.4	6.0	5.5	4.9	4.2	3.6	3.0	2.5	3.0	2.3	1.7	1.5	0.7	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.0	52.7
-6	6.0	5.8	5.5	5.0	4.5	3.9	3.3	2.8	2.4	2.8	2.2	1.7	1.4	0.7	0.4	0.1	0.1	0.1	0.1	0.0	0.0	0.0	48.8
-8	5.3	5.2	4.9	4.5	4.0	3.5	3.0	2.6	2.2	2.7	2.1	1.6	1.3	0.6	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	44.2
-10	4.6	4.5	4.2	3.9	3.5	3.1	2.7	2.3	2.0	2.5	1.9	1.4	1.2	0.6	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	39.2
-12	3.9	3.8	3.6	3.4	3.0	2.7	2.4	2.1	1.8	2.3	1.8	1.3	1.1	0.5	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	34.3
-14	3.3	3.2	3.0	2.8	2.6	2.3	2.1	1.8	1.6	2.0	1.6	1.1	0.9	0.5	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	29.6
-16	2.7	2.7	2.5	2.4	2.2	2.0	1.8	1.6	1.4	1.8	1.4	1.0	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	25.4
-18	3.2	3.2	3.1	2.9	2.7	2.5	2.3	2.1	1.8	2.3	1.7	1.2	0.9	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	31.2
-21	2.5	2.5	2.4	2.3	2.1	2.0	1.8	1.6	1.4	1.7	1.2	0.8	0.7	0.4	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0	24.2
-24	1.9	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.0	1.2	0.8	0.6	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	18.0
-27	1.7	1.7	1.6	1.5	1.4	1.2	1.1	0.9	0.8	0.9	0.7	0.5	0.4	0.3	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	15.6
-31	0.9	0.9	0.8	0.8	0.7	0.6	0.6	0.5	0.4	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0	8.6
-35	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	5.7
-40	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.0	3.3
-45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0	2.5
-50	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	3.9
-60	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	2.9
-70	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	0.1	0.1	0.2	0.1	0.0	0.0	1.9
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0
-90	118.6	115.6	109.6	101.6	92.1	81.9	71.5	61.7	52.9	64.9	49.9	37.1	32.0	17.5	11.5	6.4	4.6	6.1	3.4	1.4	0.2	0.0	1040.4

LUMEN TOTAL THIS PAGE = 1040.4



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PREPARED FOR: B-K LIGHTING, INC.

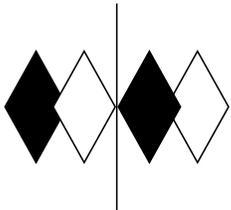
PAGE: 5 OF 7
REVISED: 11/10/15

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																							0.0
27	2.1	2.0	1.9	1.8	1.7	1.5																	11.0
24	2.2	2.2	2.1	2.0	1.9	1.7	1.6	1.4	1.2														16.2
21	2.8	2.8	2.7	2.5	2.4	2.2	2.0	1.8	1.6	2.0													22.9
18	3.6	3.5	3.4	3.2	3.0	2.8	2.5	2.3	2.0	2.5	1.9												30.6
16	2.9	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6	2.0	1.5	1.1											25.6
14	3.5	3.4	3.2	3.0	2.8	2.5	2.2	2.0	1.7	2.2	1.7	1.3											29.4
12	4.1	4.0	3.7	3.5	3.2	2.8	2.5	2.2	1.9	2.4	1.9	1.4											33.6
10	4.8	4.6	4.3	4.0	3.6	3.2	2.8	2.4	2.1	2.6	2.0	1.5	1.3										39.3
8	5.4	5.3	4.9	4.5	4.1	3.6	3.1	2.7	2.3	2.8	2.2	1.6	1.4										43.8
6	6.0	5.9	5.5	5.1	4.5	3.9	3.4	2.9	2.4	2.9	2.3	1.7	1.5										48.0
4	6.6	6.4	6.0	5.5	4.9	4.3	3.6	3.0	2.6	3.1	2.3	1.8	1.5										51.5
2	7.0	6.7	6.4	5.8	5.2	4.5	3.8	3.2	2.6	3.2	2.4	1.8	1.6										54.1
0	7.2	6.9	6.5	6.0	5.3	4.6	3.9	3.2	2.7	3.2	2.4	1.8	1.6										55.4
-2	7.1	6.9	6.5	6.0	5.3	4.6	3.9	3.2	2.7	3.2	2.4	1.8	1.6										55.3
-4	6.9	6.7	6.4	5.8	5.2	4.5	3.8	3.2	2.6	3.1	2.4	1.8	1.6										53.9
-6	6.5	6.4	6.0	5.5	4.9	4.2	3.6	3.0	2.5	3.0	2.3	1.7	1.5										51.1
-8	6.0	5.8	5.5	5.0	4.5	3.9	3.3	2.8	2.4	2.8	2.2	1.7	1.4										47.3
-10	5.3	5.2	4.9	4.5	4.0	3.5	3.0	2.6	2.2	2.7	2.1	1.6	1.3										42.8
-12	4.6	4.5	4.2	3.9	3.5	3.1	2.7	2.3	2.0	2.5	1.9	1.4											36.8
-14	3.9	3.8	3.6	3.4	3.0	2.7	2.4	2.1	1.8	2.3	1.8	1.3											32.0
-16	3.3	3.2	3.0	2.8	2.6	2.3	2.1	1.8	1.6	2.0	1.6	1.1											27.6
-18	2.7	2.7	2.5	2.4	2.2	2.0	1.8	1.6	1.4	1.8	1.4	1.0											23.6
-21	3.2	3.2	3.1	2.9	2.7	2.5	2.3	2.1	1.8	2.3	1.7												27.8
-24	2.5	2.5	2.4	2.3	2.1	2.0	1.8	1.6	1.4	1.7													20.3
-27	1.9	1.9	1.8	1.7	1.6	1.5	1.3	1.2															13.0
-31	1.7	1.7	1.6	1.5																			6.4
-35																							0.0
-40																							0.0
-45																							0.0
-50																							0.0
-60																							0.0
-70																							0.0
-80																							0.0
-90																							0.0
	113.9	110.9	105.0	97.2	86.6	76.8	65.4	56.3	47.1	56.2	40.4	27.4	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	899.4

LUMEN TOTAL THIS PAGE = 899.4

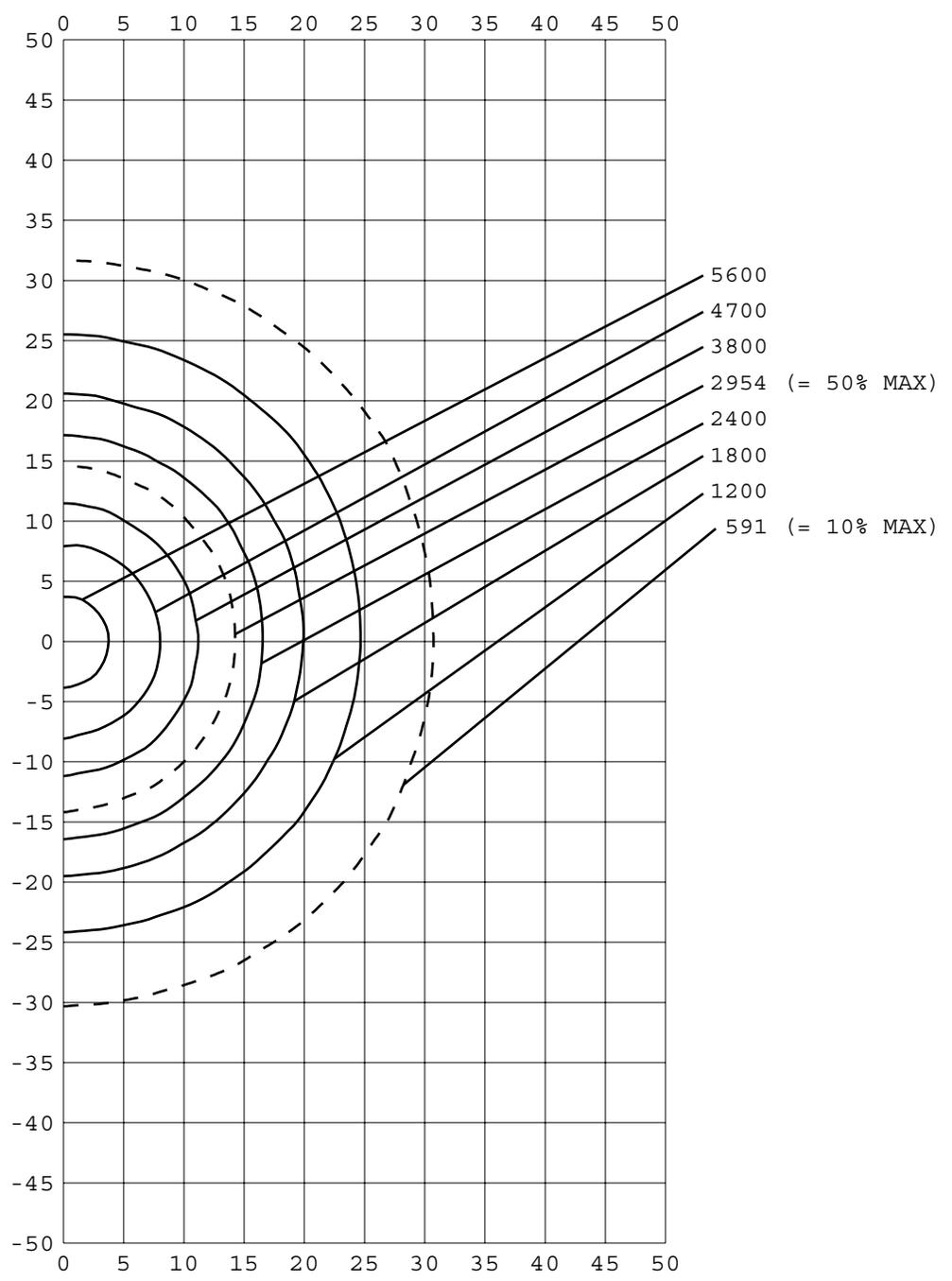


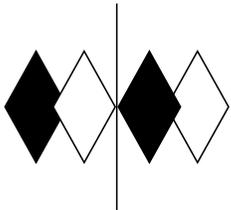
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