

REPORT NUMBER: ITL83572

PAGE: 1 OF 7

ISSUE DATE: 11/26/14

REVISED: 11/10/15

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: K2-LED-X45-NSP-12, SM-AP-LED-X45-NSP-12, AP-LED-X45-NSP-12, TY2-LED-X45-NSP-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, 34.7 WATTS, 0.292 AMPS

LED DRIVER: ELDOLED ECODEIVE 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

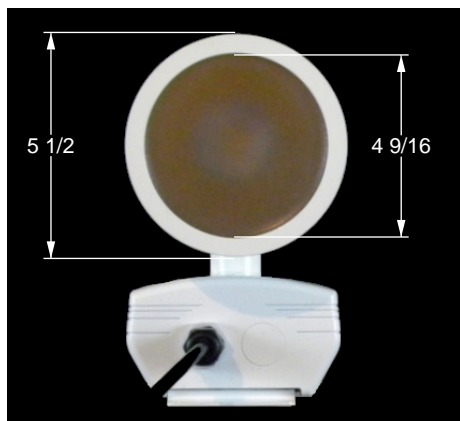
TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE 3H X 3V
MAXIMUM CANDLEPOWER 20780. AT 0.0 H, 0.0 V
HORIZONTAL BEAM ANGLE (50%) 15.9 deg
VERTICAL BEAM ANGLE (50%) 15.6 deg
HORIZONTAL FIELD ANGLE (10%) 34.4 deg
VERTICAL FIELD ANGLE (10%) 34.3 deg
BEAM LUMENS (% FIXTURE) 926. (32.9 %)
FIELD LUMENS (% FIXTURE) 1907. (67.7 %)
TOTAL LUMENS (% FIXTURE) 2816. (100.0 %)
EFFICACY = 81.2 lm/W

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	9.	85.0	3.
75.0	16.	75.0	9.
65.0	25.	65.0	14.
55.0	32.	55.0	30.
47.5	42.	47.5	38.
42.5	67.	42.5	57.
37.5	155.	37.5	139.
33.0	353.	33.0	334.
29.0	674.	29.0	632.
25.5	954.	25.5	908.
22.5	1191.	22.5	1123.
19.5	1554.	19.5	1431.
17.0	2106.	17.0	1923.
15.0	2939.	15.0	2648.
13.0	4207.	13.0	3846.
11.0	6027.	11.0	5641.
9.0	8601.	9.0	8158.
7.0	11989.	7.0	11482.
5.0	15669.	5.0	15152.
3.0	18897.	3.0	18518.
1.0	20602.	1.0	20470.
0.0	20780.	0.0	20780.
-1.0	20602.	-1.0	20654.
-3.0	18897.	-3.0	19163.
-5.0	15669.	-5.0	15700.
-7.0	11989.	-7.0	11911.
-9.0	8601.	-9.0	8708.
-11.0	6027.	-11.0	6178.
-13.0	4207.	-13.0	4376.
-15.0	2939.	-15.0	3108.
-17.0	2106.	-17.0	2256.
-19.5	1554.	-19.5	1631.
-22.5	1191.	-22.5	1247.
-25.5	954.	-25.5	1006.
-29.0	674.	-29.0	720.
-33.0	353.	-33.0	393.
-37.5	155.	-37.5	171.
-42.5	67.	-42.5	71.
-47.5	42.	-47.5	41.
-55.0	32.	-55.0	32.
-65.0	25.	-65.0	25.
-75.0	16.	-75.0	16.
-85.0	9.	-85.0	8.
-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.	7.	8.	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.	7.	5.	4.	2.	1.	0.
75.0	9.	10.	11.	11.	12.	13.	15.	15.	15.	15.	15.	15.	14.	14.	14.	13.	12.	12.	10.	9.	7.	2.	0.
65.0	14.	14.	17.	18.	20.	22.	23.	23.	23.	23.	23.	23.	22.	22.	21.	20.	19.	17.	15.	12.	9.	4.	0.
55.0	30.	30.	30.	30.	30.	30.	30.	30.	29.	29.	29.	29.	29.	28.	27.	26.	24.	23.	19.	15.	11.	5.	0.
47.5	38.	38.	38.	38.	38.	38.	37.	37.	36.	36.	35.	34.	33.	32.	31.	29.	28.	26.	23.	17.	12.	6.	0.
42.5	57.	56.	55.	55.	54.	53.	52.	50.	48.	46.	44.	42.	39.	37.	34.	32.	30.	28.	24.	19.	13.	6.	0.
37.5	139.	138.	134.	131.	123.	116.	108.	99.	90.	82.	70.	62.	53.	45.	39.	35.	31.	29.	26.	20.	13.	7.	0.
33.0	334.	334.	318.	303.	286.	264.	240.	217.	190.	166.	137.	108.	83.	62.	47.	38.	34.	31.	27.	21.	14.	7.	0.
29.0	632.	631.	609.	587.	557.	523.	479.	426.	366.	310.	249.	187.	137.	92.	62.	45.	37.	32.	28.	22.	14.	8.	0.
25.5	908.	905.	892.	867.	835.	800.	746.	681.	601.	520.	417.	302.	214.	139.	85.	54.	40.	33.	29.	23.	15.	8.	0.
22.5	1123.	1124.	1105.	1083.	1047.	1007.	950.	886.	810.	722.	600.	444.	309.	194.	112.	64.	43.	35.	29.	23.	15.	8.	0.
19.5	1431.	1428.	1390.	1345.	1283.	1219.	1146.	1069.	990.	907.	784.	608.	428.	261.	146.	76.	46.	36.	30.	23.	15.	8.	0.
17.0	1923.	1918.	1832.	1736.	1617.	1487.	1364.	1241.	1134.	1036.	911.	736.	537.	330.	178.	88.	49.	37.	30.	24.	16.	8.	0.
15.0	2648.	2637.	2484.	2298.	2070.	1837.	1619.	1423.	1272.	1143.	1005.	834.	623.	388.	206.	99.	52.	38.	31.	24.	16.	8.	0.
13.0	3846.	3824.	3554.	3211.	2792.	2359.	1992.	1672.	1441.	1262.	1095.	917.	705.	445.	234.	111.	55.	39.	31.	24.	16.	8.	0.
11.0	5641.	5608.	5161.	4577.	3861.	3162.	2517.	2010.	1652.	1389.	1179.	982.	774.	502.	261.	121.	58.	39.	31.	24.	16.	8.	0.
9.0	8158.	8101.	7533.	6427.	5292.	4194.	3202.	2443.	1907.	1530.	1265.	1039.	829.	552.	288.	131.	60.	40.	31.	25.	16.	9.	0.
7.0	11482.	11379.	10449.	8733.	7018.	5414.	3994.	2907.	2189.	1693.	1345.	1089.	873.	596.	312.	140.	63.	41.	32.	25.	16.	9.	0.
5.0	15152.	15001.	13622.	11313.	8889.	6675.	4797.	3405.	2472.	1848.	1421.	1130.	911.	630.	329.	147.	64.	41.	32.	25.	16.	9.	0.
3.0	18518.	18344.	16675.	13908.	10707.	7763.	5482.	3836.	2717.	1981.	1486.	1162.	937.	652.	344.	153.	66.	42.	32.	25.	16.	9.	0.
1.0	20470.	20278.	18546.	15411.	11778.	8461.	5924.	4127.	2892.	2078.	1538.	1184.	950.	669.	351.	155.	67.	42.	32.	25.	16.	9.	0.
0.0	20780.	20602.	18897.	15669.	11989.	8601.	6027.	4207.	2939.	2106.	1554.	1191.	954.	674.	353.	155.	67.	42.	32.	25.	16.	9.	0.
-1.0	20654.	20481.	18751.	15547.	11933.	8585.	6037.	4234.	2958.	2123.	1559.	1194.	955.	674.	352.	156.	67.	42.	32.	25.	16.	9.	0.
-3.0	19163.	18819.	17216.	14285.	11094.	8089.	5790.	4109.	2904.	2106.	1539.	1187.	947.	664.	350.	156.	67.	42.	32.	25.	16.	9.	0.
-5.0	15700.	15739.	14397.	12102.	9595.	7138.	5237.	3804.	2741.	2019.	1503.	1164.	926.	646.	338.	154.	66.	42.	32.	25.	16.	9.	0.
-7.0	11911.	11880.	10989.	9597.	7805.	6043.	4518.	3371.	2492.	1885.	1439.	1125.	896.	614.	321.	148.	65.	41.	32.	25.	16.	9.	0.
-9.0	8708.	8637.	8097.	7239.	5991.	4870.	3740.	2887.	2202.	1725.	1357.	1075.	854.	574.	300.	140.	63.	41.	32.	25.	16.	9.	0.
-11.0	6178.	6137.	5828.	5251.	4509.	3740.	2997.	2373.	1911.	1553.	1266.	1021.	798.	526.	275.	131.	61.	40.	32.	25.	16.	9.	0.
-13.0	4376.	4353.	4176.	3810.	3350.	2849.	2376.	1965.	1648.	1393.	1173.	954.	734.	474.	250.	121.	58.	40.	31.	24.	16.	8.	0.
-15.0	3108.	3097.	2992.	2768.	2497.	2198.	1903.	1641.	1431.	1248.	1074.	875.	660.	417.	224.	110.	55.	39.	31.	24.	16.	8.	0.
-17.0	2256.	2251.	2194.	2069.	1916.	1742.	1562.	1396.	1256.	1122.	975.	787.	577.	357.	196.	100.	53.	38.	31.	24.	16.	8.	0.
-19.5	1631.	1629.	1601.	1527.	1460.	1375.	1272.	1173.	1078.	976.	843.	658.	468.	287.	164.	87.	49.	37.	31.	24.	16.	8.	0.
-22.5	1247.	1245.	1222.	1192.	1157.	1100.	1042.	969.	883.	788.	658.	492.	343.	216.	129.	72.	45.	36.	30.	23.	15.	8.	0.
-25.5	1006.	1004.	985.	961.	935.	881.	820.	756.	670.	585.	470.	344.	243.	160.	98.	60.	42.	35.	29.	23.	15.	8.	0.
-29.0	720.	712.	697.	676.	643.	599.	544.	490.	418.	361.	290.	218.	159.	108.	71.	49.	39.	34.	29.	22.	15.	8.	0.
-33.0	393.	383.	375.	358.	335.	307.	280.	253.	224.	197.	164.	127.	97.	70.	50.	41.	35.	32.	28.	21.	14.	7.	0.
-37.5	171.	166.	162.	158.	152.	144.	135.	122.	109.	98.	84.	70.	58.	48.	41.	37.	33.	30.	27.	20.	14.	7.	0.
-42.5	71.	70.	70.	68.	67.	64.	61.	57.	54.	50.	47.	44.	41.	38.	36.	33.	31.	29.	25.	19.	13.	6.	0.
-47.5	41.	41.	41.	40.	40.	40.	39.	38.	38.	37.	36.	35.	35.	34.	32.	31.	29.	27.	23.	18.	12.	6.	0.
-55.0	32.	31.	31.	31.	31.	31.	31.	31.	31.	30.	30.	30.	30.	29.	28.	27.	25.	23.	20.	15.	11.	5.	0.
-65.0	25.	25.	25.	25.	25.	25.	24.	24.	24.	24.	24.	24.	23.	23.	22.	21.	19.	18.	15.	12.	10.	4.	0.
-75.0	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.	15.	15.	14.	14.	13.	12.	11.	10.	7.	2.	0.
-85.0	8.	8.	9.	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.	7.	6.	4.	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 = 10390. CP = 50% OF MAX
FIELD EDGE = 2078. CP = 10% OF MAX

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



THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



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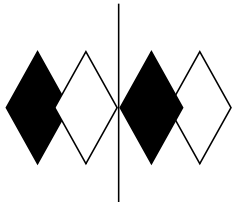
CANDELA TABULATION - FIELD ONLY

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																							
29.0																							
25.5																							
22.5																							
19.5																							
17.0																							
15.0	2648.	2637.	2484.	2298.																			
13.0	3846.	3824.	3554.	3211.	2792.	2359.																	
11.0	5641.	5608.	5161.	4577.	3861.	3162.	2517.																
9.0	8158.	8101.	7533.	6427.	5292.	4194.	3202.	2443.															
7.0	11482.	11379.	10449.	8733.	7018.	5414.	3994.	2907.	2189.														
5.0	15152.	15001.	13622.	11313.	8889.	6675.	4797.	3405.	2472.														
3.0	18518.	18344.	16675.	13908.	10707.	7763.	5482.	3836.	2717.														
1.0	20470.	20278.	18546.	15411.	11778.	8461.	5924.	4127.	2892.	2078.													
0.0	20780.	20602.	18897.	15669.	11989.	8601.	6027.	4207.	2939.	2106.													
-1.0	20654.	20481.	18751.	15547.	11933.	8585.	6037.	4234.	2958.	2123.													
-3.0	19163.	18819.	17216.	14285.	11094.	8089.	5790.	4109.	2904.	2106.													
-5.0	15700.	15739.	14397.	12102.	9595.	7138.	5237.	3804.	2741.														
-7.0	11911.	11880.	10989.	9597.	7805.	6043.	4518.	3371.	2492.														
-9.0	8708.	8637.	8097.	7239.	5991.	4870.	3740.	2887.	2202.														
-11.0	6178.	6137.	5828.	5251.	4509.	3740.	2997.	2373.															
-13.0	4376.	4353.	4176.	3810.	3350.	2849.	2376.																
-15.0	3108.	3097.	2992.	2768.	2497.	2198.																	
-17.0	2256.	2251.	2194.																				
-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																							

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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.	1.
80	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.	3.
60	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.
50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.
35	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	8.
31	2.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	14.
27	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	16.
24	2.	2.	2.	2.	2.	2.	2.	1.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.
21	3.	3.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	26.
18	2.	2.	2.	2.	2.	2.	1.	1.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	21.
16	3.	3.	3.	3.	2.	2.	2.	1.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	26.
14	5.	4.	4.	3.	3.	2.	2.	2.	1.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	33.
12	7.	6.	6.	5.	4.	3.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	43.
10	10.	9.	8.	6.	5.	4.	3.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	57.
8	14.	13.	11.	8.	7.	5.	3.	3.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	73.
6	18.	17.	14.	11.	8.	6.	4.	3.	2.	2.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	91.
4	22.	20.	17.	13.	9.	7.	5.	3.	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	107.
2	25.	23.	19.	14.	10.	7.	5.	3.	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	117.
0	25.	23.	19.	14.	10.	7.	5.	3.	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	119.
-2	23.	21.	17.	13.	10.	7.	5.	3.	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	111.
-4	19.	18.	15.	12.	9.	6.	5.	3.	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	97.
-6	14.	13.	12.	9.	7.	5.	4.	3.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	79.
-8	11.	10.	9.	7.	6.	4.	3.	3.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	63.
-10	7.	7.	6.	5.	5.	4.	3.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	49.
-12	5.	5.	5.	4.	3.	3.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	38.
-14	4.	4.	3.	3.	3.	2.	2.	2.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	30.
-16	3.	3.	3.	2.	2.	2.	2.	1.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	24.
-18	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	29.
-21	2.	2.	2.	2.	2.	2.	2.	2.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23.
-24	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	18.
-27	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	16.
-31	1.	1.	1.	1.	1.	1.	1.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	9.
-35	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	6.
-40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.
-45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
-50	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.
-60	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.
-70	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.	1.
-90	238.	221.	190.	155.	122.	94.	73.	58.	46.	55.	43.	33.	29.	16.	11.	6.	5.	7.	4.	2.	0.	0.	1408.

LUMEN TOTAL THIS PAGE = 1408.



INDEPENDENT TESTING LABORATORIES, INC.
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PREPARED FOR: B-K LIGHTING, INC.

PAGE: 5 OF 7
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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																							0.
18																							0.
16																							0.
14		3.	3.	3.																			9.
12		5.	4.	4.	3.	3.																	19.
10		7.	6.	6.	5.	4.	3.																30.
8		10.	9.	8.	6.	5.	4.	3.															45.
6		14.	13.	11.	8.	7.	5.	3.	3.														63.
4		18.	17.	14.	11.	8.	6.	4.	3.														80.
2		22.	20.	17.	13.	9.	7.	5.	3.														96.
0		25.	23.	19.	14.	10.	7.	5.	3.	2.													108.
-2		25.	23.	19.	14.	10.	7.	5.	3.	2.													110.
-4		23.	21.	17.	13.	10.	7.	5.	3.	2.													102.
-6		19.	18.	15.	12.	9.	6.	5.	3.														86.
-8		14.	13.	12.	9.	7.	5.	4.	3.														69.
-10		11.	10.	9.	7.	6.	4.	3.	3.														53.
-12		7.	7.	6.	5.	5.	4.	3.															37.
-14		5.	5.	5.	4.	3.	3.																25.
-16		4.	4.	3.	3.	3.																	16.
-18		3.	3.																				5.
-21																							0.
-24																							0.
-27																							0.
-31																							0.
-35																							0.
-40																							0.
-45																							0.
-50																							0.
-60																							0.
-70																							0.
-80																							0.
-90	215.	198.	166.	130.	98.	68.	45.	28.	7.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	954.

LUMEN TOTAL THIS PAGE = 954.



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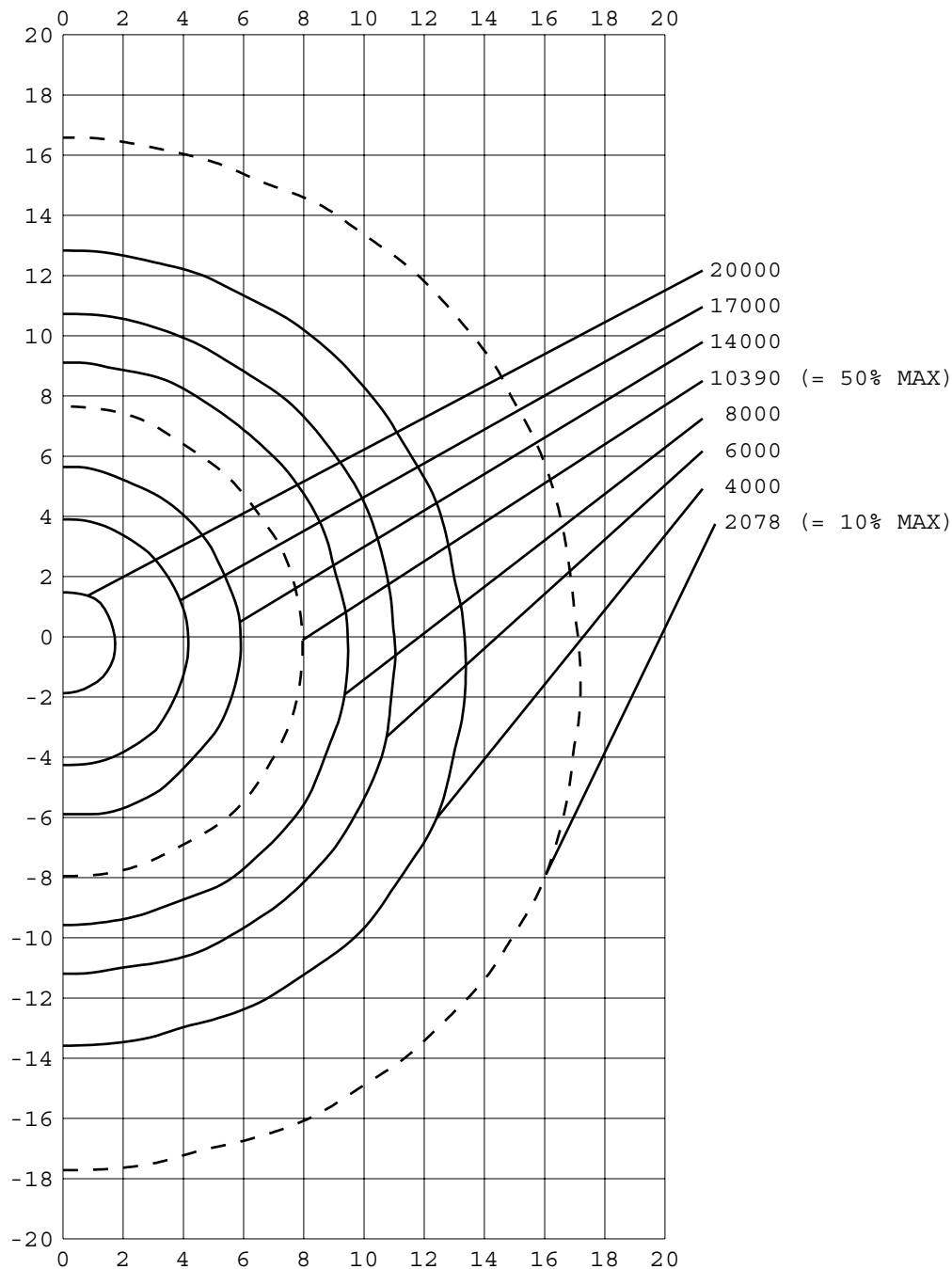
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AVERAGE OF RIGHT AND LEFT SIDES





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