

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
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: ITL86239

PAGE: 1 OF 7

ISSUE DATE: 01/13/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: MM-LED-e72-NSP-12-C, RM-MM-LED-e72-NSP-12-C, SN-MM-LED-e72-NSP-12-C,
ST-MM-LED-e72-NSP-12-C, SF-MM-LED-e72-NSP-12-C, TF-MM-LED-e72-NSP-12-C,
YM-LED-e72-NSP-12-C, OM-LED-e72-NSP-12-C, SM-MM-LED-e72-NSP-12,
PM-MM-LED-e72-NSP-12-C, WM-MM-LED-e72-NSP-12-C, UL-MM-LED-e72-NSP-12,
DM-LED-e72-NSP-12

LUMINAIRE: MACHINED CYLINDRICAL METAL HOUSING, 1 BLACK CIRCUIT BOARD WITH ONE LED,
CLEAR PLASTIC OPTIC IN MOLDED WHITE PLASTIC FRAME, CLEAR MICRO-PRISMATIC FLAT
GLASS LENS IN MACHINED BLACK PAINTED CYLINDRICAL METAL FRAME WITH UNFINISHED
INTERIOR. LENS PRISMS OUT. LUMINAIRE AIMED AT THE HORIZON FOR THIS TEST.

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

INPUT ELECTRICAL: 12.0 VOLTS, 2.69 WATTS, 0.345 AMPS

LED DRIVER: B-K LIGHTING 518801/400187-F

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

TEST PROCEDURE: IESNA LM-79-08

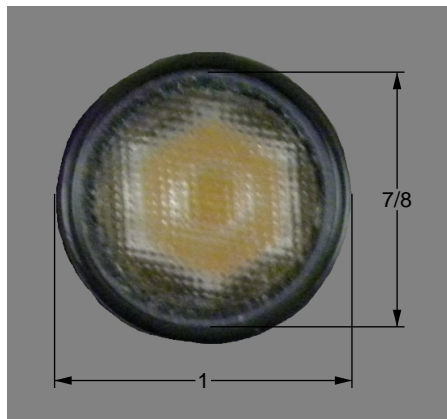
TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE 3H X 3V
MAXIMUM CANDLEPOWER 1585. AT 0.0 H, 0.0 V
HORIZONTAL BEAM ANGLE (50%) 17.0 deg
VERTICAL BEAM ANGLE (50%) 17.2 deg
HORIZONTAL FIELD ANGLE (10%) 32.5 deg
VERTICAL FIELD ANGLE (10%) 32.6 deg
BEAM LUMENS (% FIXTURE) 79. (40.2 %)
FIELD LUMENS (% FIXTURE) 150. (76.3 %)
TOTAL LUMENS (% FIXTURE) 197. (100.0 %)
EFFICACY = 73.2 lm/W

DEG	HORIZ.	DEG	VERT.
90.0	0.	90.0	0.
85.0	0.	85.0	0.
75.0	0.	75.0	0.
65.0	1.	65.0	1.
55.0	2.	55.0	2.
47.5	4.	47.5	4.
42.5	6.	42.5	6.
37.5	9.	37.5	9.
33.0	14.	33.0	15.
29.0	23.	29.0	25.
25.5	35.	25.5	38.
22.5	52.	22.5	56.
19.5	83.	19.5	92.
17.0	132.	17.0	150.
15.0	205.	15.0	234.
13.0	318.	13.0	362.
11.0	487.	11.0	549.
9.0	723.	9.0	785.
7.0	998.	7.0	1045.
5.0	1256.	5.0	1290.
3.0	1463.	3.0	1481.
1.0	1571.	1.0	1575.
0.0	1585.	0.0	1585.
-1.0	1571.	-1.0	1568.
-3.0	1463.	-3.0	1457.
-5.0	1256.	-5.0	1247.
-7.0	998.	-7.0	974.
-9.0	723.	-9.0	695.
-11.0	487.	-11.0	459.
-13.0	318.	-13.0	291.
-15.0	205.	-15.0	185.
-17.0	132.	-17.0	120.
-19.5	83.	-19.5	76.
-22.5	52.	-22.5	49.
-25.5	35.	-25.5	34.
-29.0	23.	-29.0	22.
-33.0	14.	-33.0	13.
-37.5	9.	-37.5	8.
-42.5	6.	-42.5	6.
-47.5	4.	-47.5	4.
-55.0	2.	-55.0	2.
-65.0	1.	-65.0	1.
-75.0	0.	-75.0	0.
-85.0	0.	-85.0	0.
-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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
75.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
65.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
55.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.
47.5	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	3.	2.	2.	1.	1.	1.	0.	0.	0.	0.
42.5	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	4.	4.	3.	3.	2.	2.	1.	1.	0.	0.	0.	0.
37.5	9.	9.	9.	9.	9.	8.	8.	8.	7.	7.	7.	6.	5.	5.	4.	3.	2.	2.	1.	0.	0.	0.	0.
33.0	15.	15.	14.	14.	14.	13.	12.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	1.	0.	0.	0.
29.0	25.	24.	24.	23.	22.	21.	19.	17.	16.	14.	13.	11.	9.	7.	6.	5.	3.	2.	1.	1.	0.	0.	0.
25.5	38.	38.	37.	36.	34.	32.	29.	27.	24.	21.	18.	14.	12.	9.	7.	5.	4.	3.	2.	1.	0.	0.	0.
22.5	56.	56.	55.	53.	50.	46.	42.	38.	34.	29.	24.	18.	14.	11.	8.	6.	4.	3.	2.	1.	0.	0.	0.
19.5	92.	91.	88.	83.	76.	69.	61.	54.	47.	40.	32.	23.	17.	12.	9.	6.	5.	3.	2.	1.	0.	0.	0.
17.0	150.	148.	141.	131.	117.	101.	86.	73.	61.	51.	40.	28.	20.	14.	10.	7.	5.	3.	2.	1.	0.	0.	0.
15.0	234.	230.	218.	196.	171.	143.	115.	94.	75.	60.	46.	32.	23.	15.	10.	7.	5.	4.	2.	1.	0.	0.	0.
13.0	362.	357.	336.	298.	252.	203.	157.	121.	93.	72.	52.	36.	25.	16.	11.	7.	5.	4.	2.	1.	0.	0.	0.
11.0	549.	542.	506.	440.	357.	279.	209.	155.	114.	84.	59.	40.	27.	18.	12.	8.	5.	4.	2.	1.	0.	0.	0.
9.0	785.	780.	725.	609.	493.	375.	273.	193.	136.	96.	66.	43.	29.	19.	12.	8.	6.	4.	2.	1.	0.	0.	0.
7.0	1045.	1038.	951.	814.	646.	479.	340.	234.	159.	109.	72.	46.	31.	20.	13.	8.	6.	4.	2.	1.	0.	0.	0.
5.0	1290.	1282.	1177.	1010.	800.	584.	404.	272.	180.	120.	77.	48.	32.	21.	13.	9.	6.	4.	2.	1.	0.	0.	0.
3.0	1481.	1470.	1355.	1165.	926.	671.	456.	300.	195.	127.	80.	50.	34.	22.	14.	9.	6.	4.	2.	1.	0.	0.	0.
1.0	1575.	1559.	1451.	1246.	992.	718.	483.	316.	205.	131.	82.	52.	34.	22.	14.	9.	6.	4.	2.	1.	0.	0.	0.
0.0	1585.	1571.	1463.	1256.	998.	723.	487.	318.	205.	132.	83.	52.	35.	23.	14.	9.	6.	4.	2.	1.	0.	0.	0.
-1.0	1568.	1557.	1447.	1242.	984.	714.	483.	315.	203.	131.	82.	52.	35.	23.	14.	9.	6.	4.	2.	1.	0.	0.	0.
-3.0	1457.	1449.	1340.	1147.	908.	659.	451.	298.	192.	126.	79.	51.	34.	23.	15.	10.	6.	4.	2.	1.	0.	0.	0.
-5.0	1247.	1245.	1150.	977.	773.	569.	396.	265.	173.	115.	74.	49.	33.	22.	15.	10.	6.	4.	2.	1.	0.	0.	0.
-7.0	974.	977.	905.	768.	613.	460.	325.	222.	149.	101.	68.	46.	32.	22.	15.	10.	6.	4.	2.	1.	0.	0.	0.
-9.0	695.	701.	652.	562.	459.	350.	252.	178.	123.	88.	60.	42.	29.	20.	14.	10.	6.	4.	2.	1.	0.	0.	0.
-11.0	459.	466.	436.	386.	323.	252.	189.	138.	100.	74.	53.	37.	27.	19.	13.	9.	6.	4.	2.	1.	0.	0.	0.
-13.0	291.	295.	281.	253.	218.	176.	137.	105.	80.	62.	46.	33.	24.	17.	12.	9.	6.	4.	2.	1.	0.	0.	0.
-15.0	185.	187.	179.	165.	146.	124.	101.	81.	64.	51.	40.	29.	21.	15.	11.	8.	6.	4.	2.	1.	0.	0.	0.
-17.0	120.	118.	117.	111.	102.	89.	75.	63.	52.	43.	33.	25.	18.	14.	10.	8.	6.	4.	2.	1.	0.	0.	0.
-19.5	76.	76.	75.	72.	67.	61.	53.	46.	40.	33.	27.	20.	16.	12.	9.	7.	5.	4.	2.	1.	0.	0.	0.
-22.5	49.	49.	48.	47.	45.	41.	37.	33.	29.	25.	21.	16.	13.	10.	8.	6.	5.	3.	2.	1.	0.	0.	0.
-25.5	34.	34.	33.	32.	31.	29.	26.	24.	21.	19.	16.	13.	10.	8.	7.	5.	4.	3.	2.	1.	0.	0.	0.
-29.0	22.	22.	22.	21.	20.	19.	18.	16.	15.	13.	12.	10.	8.	7.	6.	5.	4.	3.	1.	1.	0.	0.	0.
-33.0	13.	13.	13.	13.	13.	12.	11.	11.	10.	9.	9.	8.	7.	6.	5.	4.	3.	2.	1.	0.	0.	0.	0.
-37.5	8.	8.	8.	8.	8.	8.	8.	7.	7.	7.	6.	6.	5.	5.	4.	3.	2.	2.	1.	0.	0.	0.	0.
-42.5	6.	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	4.	4.	3.	3.	2.	2.	1.	1.	0.	0.	0.	0.
-47.5	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	3.	3.	3.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
-55.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
-65.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-75.0	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.	0.	0.	0.	0.	0.	0.	0.	0.	0.	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 = 793. CP = 50% OF MAX
FIELD EDGE = 159. 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																							
25.5																							
22.5																							
19.5																							
17.0																							
15.0	234.	230.	218.	196.	171.																		
13.0	362.	357.	336.	298.	252.	203.																	
11.0	549.	542.	506.	440.	357.	279.	209.																
9.0	785.	780.	725.	609.	493.	375.	273.	193.															
7.0	1045.	1038.	951.	814.	646.	479.	340.	234.	159.														
5.0	1290.	1282.	1177.	1010.	800.	584.	404.	272.	180.														
3.0	1481.	1470.	1355.	1165.	926.	671.	456.	300.	195.														
1.0	1575.	1559.	1451.	1246.	992.	718.	483.	316.	205.														
0.0	1585.	1571.	1463.	1256.	998.	723.	487.	318.	205.														
-1.0	1568.	1557.	1447.	1242.	984.	714.	483.	315.	203.														
-3.0	1457.	1449.	1340.	1147.	908.	659.	451.	298.	192.														
-5.0	1247.	1245.	1150.	977.	773.	569.	396.	265.	173.														
-7.0	974.	977.	905.	768.	613.	460.	325.	222.															
-9.0	695.	701.	652.	562.	459.	350.	252.	178.															
-11.0	459.	466.	436.	386.	323.	252.	189.																
-13.0	291.	295.	281.	253.	218.	176.																	
-15.0	185.	187.	179.	165.																			
-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																							

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PAGE: 4 OF 7

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	0.0
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	0.0
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	0.1
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	0.2
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	0.2
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	0.3
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
31	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
27	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
24	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	0.0	0.0	0.0	0.0	1.0
21	0.2	0.2	0.2	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	0.0	0.0	0.0	1.4
18	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0	1.3
16	0.3	0.3	0.2	0.2	0.2	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	0.0	0.0	0.0	1.8
14	0.4	0.4	0.4	0.3	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	0.0	0.0	0.0	0.0	2.6
12	0.7	0.6	0.5	0.4	0.3	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	0.0	0.0	0.0	0.0	3.6
10	1.0	0.9	0.7	0.6	0.5	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	0.0	0.0	0.0	0.0	4.8
8	1.3	1.2	1.0	0.8	0.6	0.4	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	0.0	0.0	0.0	6.1
6	1.6	1.4	1.2	1.0	0.7	0.5	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	0.0	0.0	0.0	7.4
4	1.8	1.6	1.4	1.1	0.8	0.5	0.4	0.2	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	8.5
2	1.9	1.8	1.5	1.2	0.9	0.6	0.4	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	0.0	0.0	9.0
0	1.9	1.8	1.5	1.2	0.9	0.6	0.4	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	0.0	0.0	9.0
-2	1.8	1.6	1.4	1.1	0.8	0.5	0.4	0.2	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	8.4
-4	1.5	1.4	1.2	0.9	0.7	0.5	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	0.0	0.0	0.0	7.2
-6	1.2	1.1	0.9	0.7	0.6	0.4	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	0.0	0.0	0.0	5.8
-8	0.9	0.8	0.7	0.6	0.4	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	0.0	0.0	0.0	0.0	4.4
-10	0.6	0.5	0.5	0.4	0.3	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	0.0	0.0	0.0	0.0	3.2
-12	0.4	0.3	0.3	0.3	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	0.0	0.0	0.0	0.0	2.2
-14	0.2	0.2	0.2	0.2	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	0.0	0.0	0.0	0.0	1.6
-16	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	0.0	0.0	0.0	0.0	1.2
-18	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	0.0	0.0	0.0	1.2
-21	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	0.0	0.0	0.0	0.9
-24	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
-27	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	0.0	0.6
-31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
-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	0.2
-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	0.2
-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	0.1
-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	0.0
-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	0.0
-90	18.5	17.2	14.9	12.1	9.2	6.6	4.7	3.4	2.4	2.6	1.8	1.3	1.2	0.8	0.7	0.5	0.3	0.3	0.1	0.0	0.0	0.0	98.5

LUMEN TOTAL THIS PAGE = 98.5



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REPORT NUMBER: ITL86239
ISSUE DATE: 01/13/16
PREPARED FOR: B-K LIGHTING, INC.

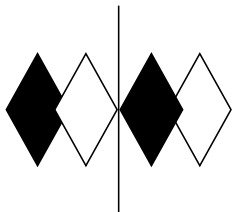
PAGE: 5 OF 7

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																						0.0
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																						0.0
24																						0.0
21																						0.0
18																						0.0
16																						0.0
14	0.3	0.3	0.2	0.2																		1.0
12	0.4	0.4	0.4	0.3	0.2																	1.8
10	0.7	0.6	0.5	0.4	0.3	0.2																2.8
8	1.0	0.9	0.7	0.6	0.5	0.3	0.2															4.2
6	1.3	1.2	1.0	0.8	0.6	0.4	0.3	0.2														5.6
4	1.6	1.4	1.2	1.0	0.7	0.5	0.3	0.2														6.9
2	1.8	1.6	1.4	1.1	0.8	0.5	0.4	0.2														7.9
0	1.9	1.8	1.5	1.2	0.9	0.6	0.4	0.2														8.4
-2	1.9	1.8	1.5	1.2	0.9	0.6	0.4	0.2														8.4
-4	1.8	1.6	1.4	1.1	0.8	0.5	0.4	0.2														7.8
-6	1.5	1.4	1.2	0.9	0.7	0.5	0.3	0.2														6.7
-8	1.2	1.1	0.9	0.7	0.6	0.4	0.3															5.2
-10	0.9	0.8	0.7	0.6	0.4	0.3	0.2															3.8
-12	0.6	0.5	0.5	0.4	0.3	0.2																2.5
-14	0.4	0.3	0.3	0.3	0.2																	1.5
-16	0.2	0.2	0.2																			0.6
-18																						0.0
-21																						0.0
-24																						0.0
-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	17.2	16.0	13.7	10.8	7.8	5.1	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.2

LUMEN TOTAL THIS PAGE = 75.2



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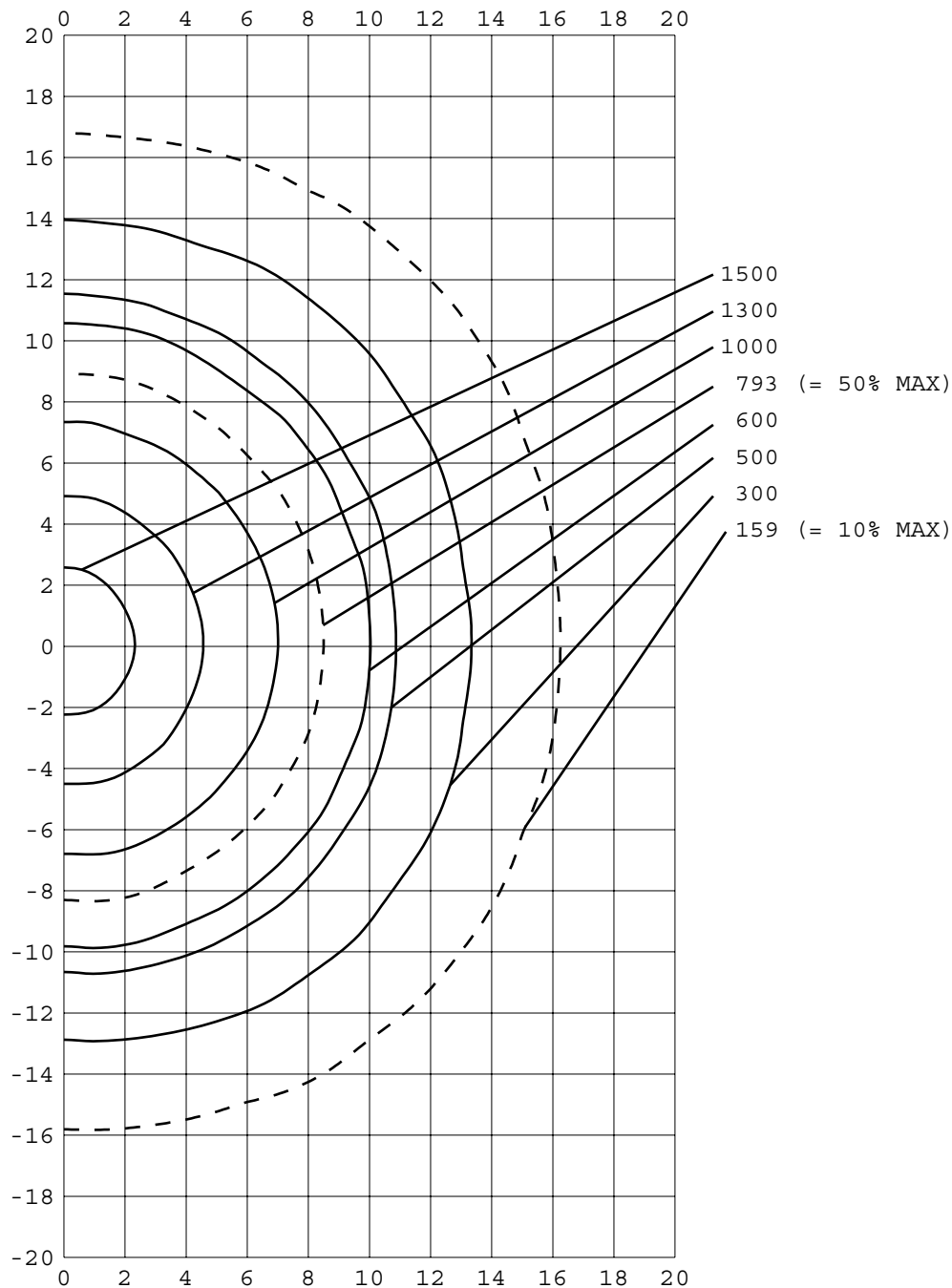
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