

REPORT NUMBER: ITL87034-GONIOPHOTOMETRY

PAGE: 1 OF 7

ISSUE DATE: 03/30/16

PREPARED FOR: B-K LIGHTING, INC.

CATALOG NUMBER: VS-LED-e102-NSP-12

LUMINAIRE: CAST METAL WALL MOUNTING HOUSING, ONE ADJUSTABLE LED MODULE CONSISTING OF: MACHINED BLACK FINISHED METAL HEAT SINK, ONE BLACK CIRCUIT BOARD WITH 3 LEDS, ONE CLEAR CONICAL PLASTIC OPTIC PER LED, MOLDED BLACK PLASTIC OPTIC MOUNTING FRAME. FABRICATED DIFFUSE METAL LED MODULE MOUNTING BRACKETS, MACHINED BLACK FINISHED METAL OPTIC ASSEMBLY MOUNTING COLLAR, CLEAR FLAT MICRO-PRISMATIC GLASS LENS, CAST BLACK PAINTED METAL FACEPLATE, LENS PRISMS OUT. LED MODULE AND LUMINAIRE AIMED AT THE HORIZON.

LAMPS: THREE WHITE LIGHT EMITTING DIODES (LEDs), AIMED AT THE HORIZON.

INPUT ELECTRICAL: 12.0 VOLTS, 4.88 WATTS, 0.455 AMPS

LED DRIVER: B-K LIGHTING 524439/400188-L-L, 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 (12VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

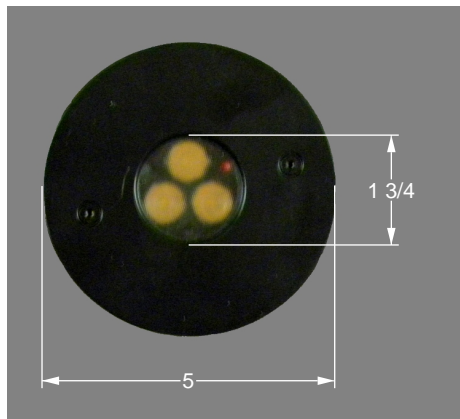
TEST DISTANCE = 20.0 FEET

FLOODLIGHT CHARACTERISTICS

AXIAL CANDLEPOWER

IES TYPE 2H X 2V
MAXIMUM CANDLEPOWER 4527. AT 0.0 H, 0.0 V
HORIZONTAL BEAM ANGLE (50%) 13.9 deg
VERTICAL BEAM ANGLE (50%) 13.7 deg
HORIZONTAL FIELD ANGLE (10%) 27.6 deg
VERTICAL FIELD ANGLE (10%) 26.8 deg
BEAM LUMENS (% FIXTURE) 139. (39.2 %)
FIELD LUMENS (% FIXTURE) 290. (81.6 %)
TOTAL LUMENS (% FIXTURE) 355. (100.0 %)
EFFICACY = 72.7 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	0.	65.0	0.
55.0	1.	55.0	1.
47.5	2.	47.5	2.
42.5	3.	42.5	3.
37.5	5.	37.5	5.
33.0	9.	33.0	9.
29.0	16.	29.0	15.
25.5	30.	25.5	26.
22.5	54.	22.5	44.
19.5	101.	19.5	79.
17.0	184.	17.0	146.
15.0	312.	15.0	253.
13.0	537.	13.0	447.
11.0	907.	11.0	790.
9.0	1469.	9.0	1340.
7.0	2242.	7.0	2119.
5.0	3176.	5.0	3053.
3.0	4005.	3.0	3933.
1.0	4471.	1.0	4451.
0.0	4527.	0.0	4527.
-1.0	4471.	-1.0	4478.
-3.0	4005.	-3.0	4015.
-5.0	3176.	-5.0	3181.
-7.0	2242.	-7.0	2247.
-9.0	1469.	-9.0	1467.
-11.0	907.	-11.0	913.
-13.0	537.	-13.0	550.
-15.0	312.	-15.0	322.
-17.0	184.	-17.0	189.
-19.5	101.	-19.5	97.
-22.5	54.	-22.5	52.
-25.5	30.	-25.5	30.
-29.0	16.	-29.0	16.
-33.0	9.	-33.0	9.
-37.5	5.	-37.5	5.
-42.5	3.	-42.5	3.
-47.5	2.	-47.5	2.
-55.0	1.	-55.0	1.
-65.0	0.	-65.0	0.
-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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
55.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
47.5	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.
42.5	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.
37.5	5.	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.	3.	3.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.
33.0	9.	9.	9.	8.	8.	8.	7.	7.	6.	6.	5.	5.	4.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.
29.0	15.	15.	15.	14.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.
25.5	26.	26.	25.	24.	22.	20.	18.	16.	14.	12.	11.	8.	7.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.
22.5	44.	43.	42.	39.	37.	33.	30.	26.	22.	18.	15.	11.	8.	6.	4.	3.	2.	1.	1.	0.	0.	0.	0.
19.5	79.	79.	75.	70.	63.	56.	49.	41.	33.	27.	20.	15.	10.	7.	5.	3.	2.	1.	1.	0.	0.	0.	0.
17.0	146.	145.	137.	124.	108.	91.	77.	62.	49.	38.	28.	19.	13.	9.	6.	4.	2.	1.	1.	0.	0.	0.	0.
15.0	253.	250.	235.	208.	174.	140.	112.	86.	65.	50.	35.	23.	15.	10.	6.	4.	2.	1.	1.	0.	0.	0.	0.
13.0	447.	438.	407.	351.	284.	221.	167.	119.	87.	63.	44.	28.	17.	11.	7.	4.	3.	2.	1.	0.	0.	0.	0.
11.0	790.	774.	708.	595.	462.	350.	247.	167.	115.	80.	53.	33.	20.	12.	7.	4.	3.	2.	1.	0.	0.	0.	0.
9.0	1340.	1324.	1196.	983.	737.	519.	345.	231.	151.	101.	64.	39.	23.	13.	8.	5.	3.	2.	1.	0.	0.	0.	0.
7.0	2119.	2101.	1881.	1517.	1109.	740.	482.	308.	191.	124.	75.	44.	26.	14.	8.	5.	3.	2.	1.	0.	0.	0.	0.
5.0	3053.	3027.	2687.	2135.	1507.	1003.	634.	392.	236.	147.	86.	49.	28.	15.	9.	5.	3.	2.	1.	0.	0.	0.	0.
3.0	3933.	3895.	3454.	2726.	1908.	1252.	777.	470.	276.	168.	95.	52.	29.	16.	9.	5.	3.	2.	1.	0.	0.	0.	0.
1.0	4451.	4404.	3932.	3111.	2183.	1427.	879.	523.	304.	181.	100.	54.	30.	16.	9.	5.	3.	2.	1.	0.	0.	0.	0.
0.0	4527.	4471.	4005.	3176.	2242.	1469.	907.	537.	312.	184.	101.	54.	30.	16.	9.	5.	3.	2.	1.	0.	0.	0.	0.
-1.0	4478.	4414.	3954.	3144.	2239.	1474.	915.	541.	315.	185.	102.	54.	30.	16.	9.	5.	3.	2.	1.	0.	0.	0.	0.
-3.0	4015.	3944.	3519.	2825.	2064.	1382.	870.	518.	305.	180.	99.	53.	29.	16.	9.	6.	3.	2.	1.	0.	0.	0.	0.
-5.0	3181.	3130.	2804.	2288.	1699.	1183.	761.	460.	275.	165.	92.	50.	28.	15.	9.	5.	3.	2.	1.	0.	0.	0.	0.
-7.0	2247.	2228.	2022.	1685.	1287.	912.	603.	382.	233.	144.	83.	46.	26.	15.	9.	5.	3.	2.	1.	0.	0.	0.	0.
-9.0	1467.	1465.	1347.	1146.	899.	657.	441.	296.	184.	120.	72.	40.	23.	14.	9.	5.	3.	2.	1.	0.	0.	0.	0.
-11.0	913.	912.	846.	732.	590.	435.	307.	212.	141.	97.	61.	35.	21.	13.	8.	5.	3.	2.	1.	0.	0.	0.	0.
-13.0	550.	545.	509.	448.	368.	278.	206.	148.	105.	76.	49.	29.	18.	12.	8.	5.	3.	2.	1.	0.	0.	0.	0.
-15.0	322.	316.	299.	265.	224.	176.	137.	104.	77.	57.	39.	24.	16.	11.	7.	5.	3.	2.	1.	0.	0.	0.	0.
-17.0	189.	184.	176.	160.	139.	114.	92.	73.	56.	43.	30.	20.	14.	10.	7.	4.	3.	2.	1.	0.	0.	0.	0.
-19.5	97.	99.	95.	88.	79.	68.	58.	48.	38.	30.	22.	16.	12.	9.	6.	4.	3.	1.	1.	0.	0.	0.	0.
-22.5	52.	52.	51.	48.	44.	40.	34.	29.	24.	20.	16.	12.	10.	7.	5.	4.	2.	1.	0.	0.	0.	0.	0.
-25.5	30.	30.	29.	28.	25.	23.	20.	18.	16.	14.	12.	10.	8.	6.	4.	3.	2.	1.	0.	0.	0.	0.	0.
-29.0	16.	16.	16.	15.	15.	14.	13.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	1.	0.	0.	0.	0.	0.
-33.0	9.	9.	9.	9.	8.	8.	8.	7.	7.	6.	6.	5.	5.	4.	3.	2.	1.	1.	0.	0.	0.	0.	0.
-37.5	5.	5.	5.	5.	5.	5.	5.	4.	4.	4.	4.	4.	3.	3.	2.	1.	1.	0.	0.	0.	0.	0.	0.
-42.5	3.	3.	3.	3.	3.	3.	3.	3.	2.	2.	2.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.
-47.5	2.	2.	2.	2.	2.	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.
-55.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
-65.0	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.
-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 = 2264. CP = 50% OF MAX
FIELD EDGE = 453. CP = 10% OF MAX

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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																							
13.0																							
11.0	790.	774.	708.	595.	462.																		
9.0	1340.	1324.	1196.	983.	737.	519.																	
7.0	2119.	2101.	1881.	1517.	1109.	740.	482.																
5.0	3053.	3027.	2687.	2135.	1507.	1003.	634.																
3.0	3933.	3895.	3454.	2726.	1908.	1252.	777.	470.															
1.0	4451.	4404.	3932.	3111.	2183.	1427.	879.	523.															
0.0	4527.	4471.	4005.	3176.	2242.	1469.	907.	537.															
-1.0	4478.	4414.	3954.	3144.	2239.	1474.	915.	541.															
-3.0	4015.	3944.	3519.	2825.	2064.	1382.	870.	518.															
-5.0	3181.	3130.	2804.	2288.	1699.	1183.	761.	460.															
-7.0	2247.	2228.	2022.	1685.	1287.	912.	603.																
-9.0	1467.	1465.	1347.	1146.	899.	657.																	
-11.0	913.	912.	846.	732.	590.																		
-13.0	550.	545.	509.																				
-15.0																							
-17.0																							
-19.5																							
-22.5																							
-25.5																							
-29.0																							
-33.0																							
-37.5																							
-42.5																							
-47.5																							
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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	0.0
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	0.0
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
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	0.1
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	0.1
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	0.2
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	0.2
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
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
24	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
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	1.1
18	0.2	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	0.0	0.0	0.0	1.2
16	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	0.0	1.8
14	0.5	0.5	0.4	0.3	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	0.0	2.8
12	0.9	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	0.0	4.5
10	1.6	1.5	1.2	0.9	0.6	0.4	0.3	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	7.0
8	2.6	2.3	1.8	1.3	0.9	0.6	0.4	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	10.6
6	3.7	3.3	2.6	1.8	1.2	0.8	0.5	0.3	0.2	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	14.6
4	4.7	4.2	3.3	2.3	1.5	0.9	0.6	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5
2	5.4	4.8	3.8	2.6	1.7	1.1	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9
0	5.4	4.8	3.8	2.7	1.8	1.1	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.2
-2	4.8	4.3	3.4	2.5	1.7	1.0	0.6	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3
-4	3.8	3.4	2.8	2.1	1.4	0.9	0.5	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
-6	2.7	2.5	2.0	1.6	1.1	0.7	0.5	0.3	0.2	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	11.8
-8	1.8	1.6	1.4	1.1	0.8	0.5	0.4	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	8.2
-10	1.1	1.0	0.9	0.7	0.5	0.4	0.3	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	5.4
-12	0.7	0.6	0.5	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	0.0	0.0	0.0	0.0	0.0	0.0	3.5
-14	0.4	0.4	0.3	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	0.0	2.2
-16	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	1.4
-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
-21	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	0.0	0.0	0.0	0.8
-24	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	0.5
-27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
-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	0.3
-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	0.2
-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	0.1
-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	0.1
-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	0.1
-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	0.0
-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	0.0
-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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	41.6	37.4	30.4	22.4	15.5	10.2	6.5	4.1	2.7	2.5	1.5	0.9	0.8	0.5	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0	177.7

LUMEN TOTAL THIS PAGE = 177.7



INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL87034-GONIOPHOTOMETRY
ISSUE DATE: 03/30/16
PREPARED FOR: B-K LIGHTING, INC.

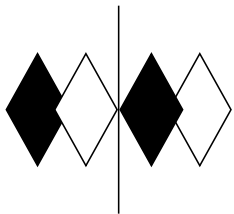
PAGE: 5 OF 7

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																						0.0
12																						0.0
10	0.9	0.9	0.7	0.6																		3.1
8	1.6	1.5	1.2	0.9	0.6																	5.8
6	2.6	2.3	1.8	1.3	0.9	0.6																9.5
4	3.7	3.3	2.6	1.8	1.2	0.8																13.3
2	4.7	4.2	3.3	2.3	1.5	0.9	0.6															17.6
0	5.4	4.8	3.8	2.6	1.7	1.1	0.6															20.0
-2	5.4	4.8	3.8	2.7	1.8	1.1	0.6															20.2
-4	4.8	4.3	3.4	2.5	1.7	1.0	0.6															18.3
-6	3.8	3.4	2.8	2.1	1.4	0.9	0.5															14.9
-8	2.7	2.5	2.0	1.6	1.1	0.7																10.6
-10	1.8	1.6	1.4	1.1	0.8																	6.7
-12	1.1	1.0	0.9	0.7																		3.7
-14	0.7	0.6																				1.3
-16																						0.0
-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																						0.0
	39.2	35.1	27.8	20.2	12.7	7.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.0

LUMEN TOTAL THIS PAGE = 145.0



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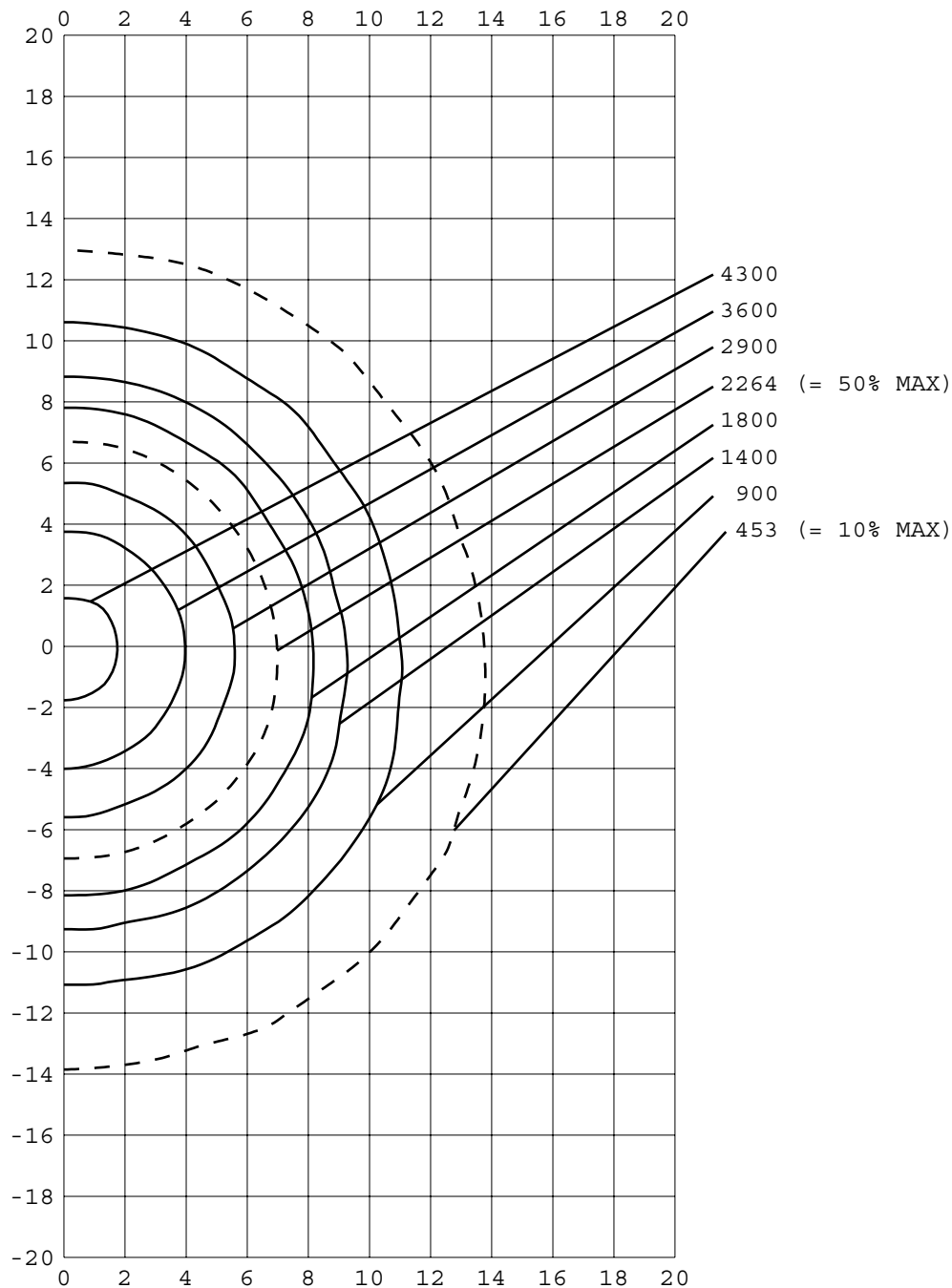
PAGE: 6 OF 7

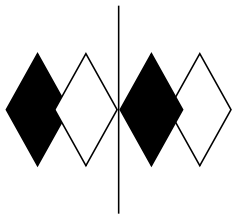
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AVERAGE OF RIGHT AND LEFT SIDES





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