

REPORT NUMBER: ITL85787

ISSUE DATE: 10/08/15

PAGE: 1 OF 9

PREPARED FOR: LED ROADWAY LIGHTING LTD.

CATALOG NUMBER: NXT 36S 0 X 2EM 7 XX 3 XX X XX X

LUMINAIRE: CAST METAL HOUSING WITH GRAY PAINTED INTERIOR FINISH, 1 WHITE CIRCUIT BOARD WITH 36 LEDS, 1 CLEAR PLASTIC LENS WITH 1 OPTIC PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL DOOR FRAME.

LAMPS: THIRTY-SIX WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 80.0 WATTS, 0.675 AMPS

LED DRIVER: LED ROADWAY LIGHTING J100UN, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, OUTPUT CURRENT ROTARY SWITCH SET TO 700mA. LRL65633-LF SURGE PROTECTOR.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

TOTAL LUMEN OUTPUT: 8778

COLOR TEMPERATURE AS MEASURED IN INTEGRATING SPHERE TEST # ITL85790: 3772K

COLOR RENDERING INDEX AS MEASURED IN INTEGRATING SPHERE TEST # ITL85790: 73

LED DC DRIVE CURRENT (mA): 700 (PROVIDED BY CLIENT)

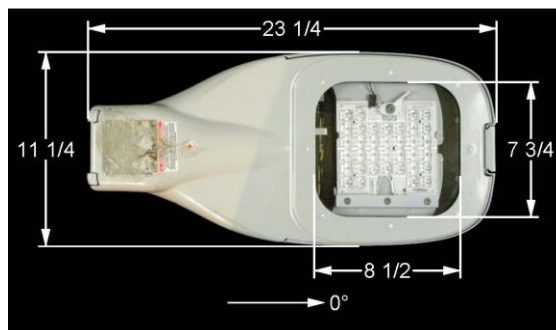
POWER FACTOR: 98.8 %

BUG RATING: B2 U0 G2

LUMINAIRE EFFICACY: 109.7 lm/W

IES CLASSIFICATION: Medium, Type III

**CUTOFF DESIGNATION IS NOT INTENDED TO BE USED WITH ABSOLUTE PHOTOMETRIC TESTS.

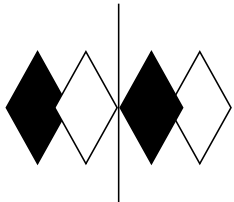


FLUX DISTRIBUTION

LUMENS	DOWNWARD	UPWARD	TOTALS
HOUSE SIDE	2611	0	2611
STREET SIDE	6168	0	6168
TOTALS	8778	0	8778

TESTING WAS PERFORMED IN ACCORDANCE WITH IESNA LM-79-08
TEST ANGULAR INCREMENTS AND REPORT FORMATTING WAS BASED ON IESNA LM-31-95

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



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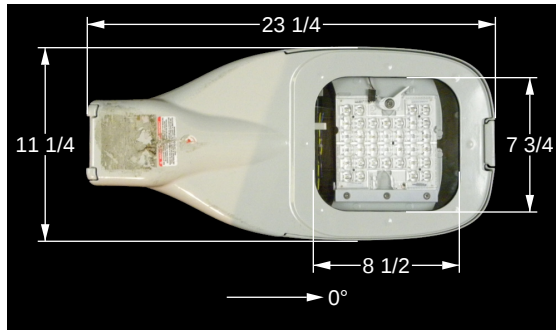
NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 30 foot mounting height.



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CATALOG NUMBER: NXT 36S 0 X 2EM 7 XX 3 XX X XX X

LUMINAIRE: CAST METAL HOUSING WITH GRAY PAINTED INTERIOR FINISH, 1 WHITE CIRCUIT BOARD WITH 36 LEDs, 1 CLEAR PLASTIC LENS WITH 1 OPTIC PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL DOOR FRAME.

LAMPS: THIRTY-SIX WHITE LIGHT EMITTING DIODES (LEDs), VERTICAL BASE-UP POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 80.0 WATTS, 0.675 AMPS

LED DRIVER: LED ROADWAY LIGHTING J100UN, DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT AND LED OUTPUT LEADS CONNECTED FOR THIS TEST, OUTPUT CURRENT ROTARY SWITCH SET TO 700mA. LRL65633-LF SURGE PROTECTOR.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

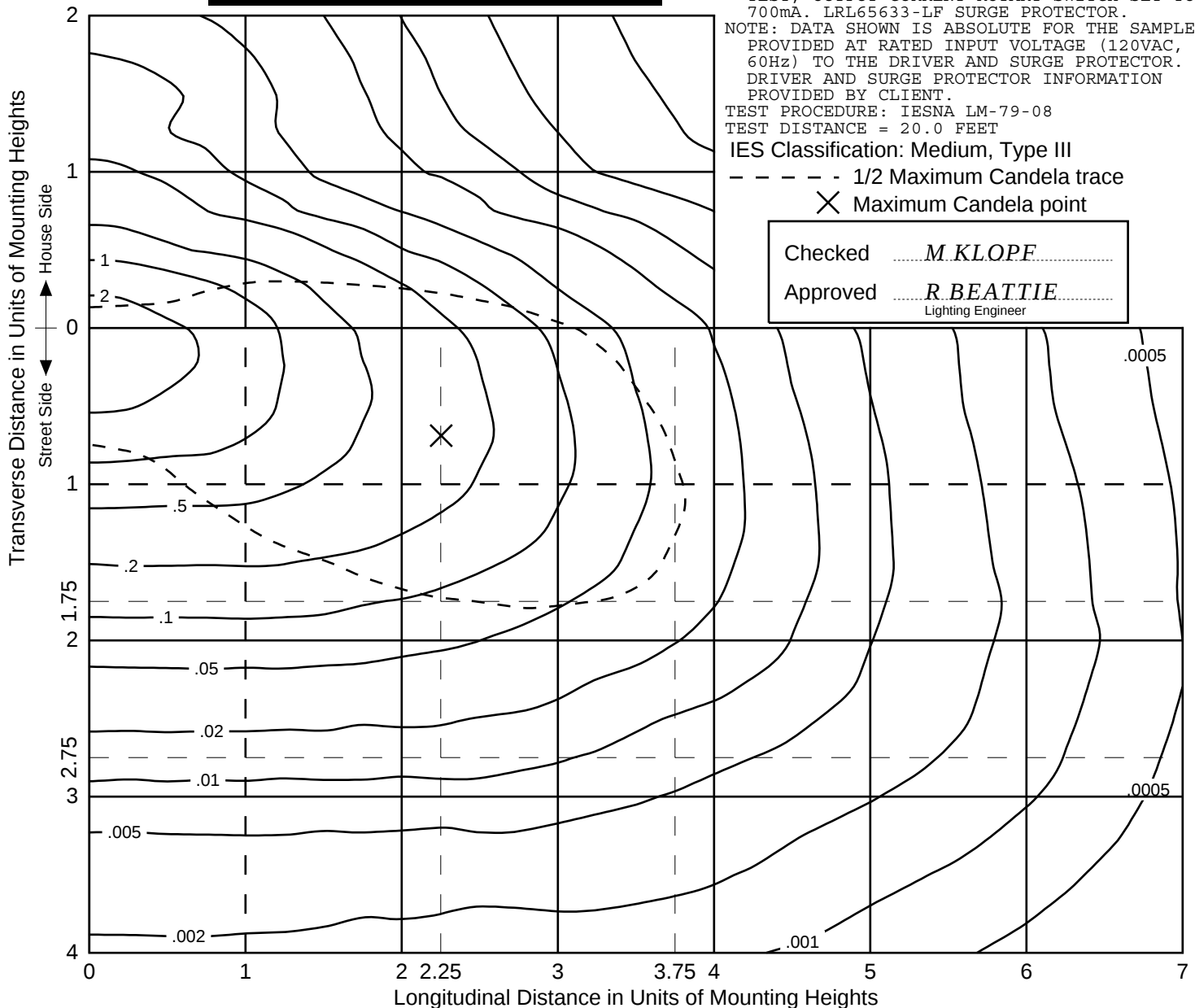
IES Classification: Medium, Type III

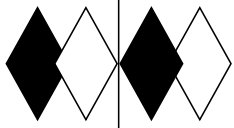
--- 1/2 Maximum Candela trace

× Maximum Candela point

CheckedM.KLOPF.....

ApprovedR.BEATTIE.....
Lighting Engineer





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PREPARED FOR: LED ROADWAY LIGHTING LTD.

CATALOG NUMBER: NXT 36S 0 X 2EM 7 XX 3

XX X XX X

LUMINAIRE: CAST METAL HOUSING WITH GRAY
PAINTED INTERIOR FINISH, 1 WHITE
CIRCUIT BOARD WITH 36 LEDS, 1 CLEAR
PLASTIC LENS WITH 1 OPTIC PER LED,
CLEAR FLAT GLASS LENS IN CAST GRAY
PAINTED METAL DOOR FRAME.

LAMPS: THIRTY-SIX WHITE LIGHT EMITTING
DIODES (LEDs), VERTICAL BASE-UP
POSITION.

INPUT ELECTRICAL: 120.0 VOLTS, 80.0
WATTS, 0.675 AMPS

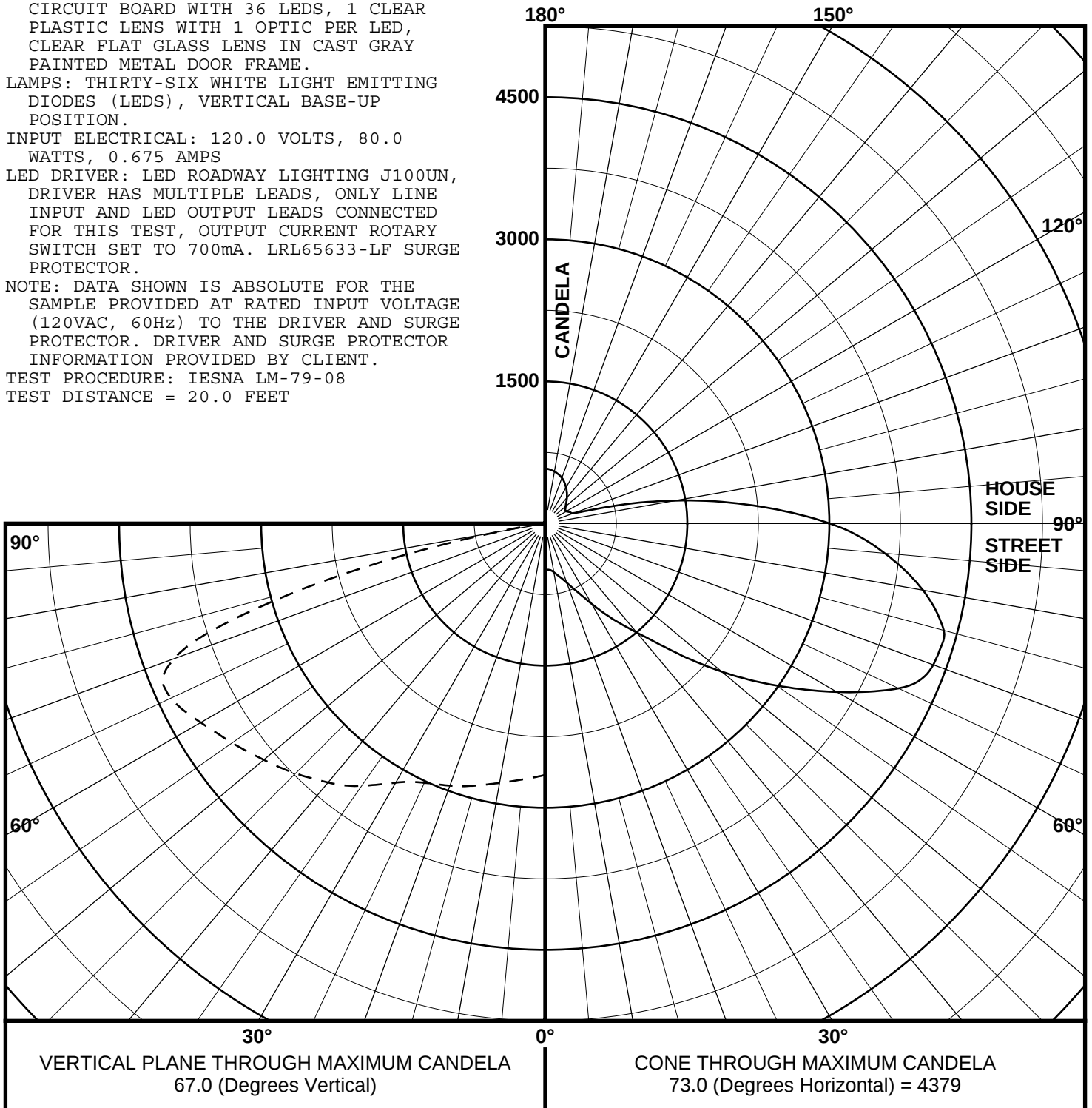
LED DRIVER: LED ROADWAY LIGHTING J100UN,
DRIVER HAS MULTIPLE LEADS, ONLY LINE
INPUT AND LED OUTPUT LEADS CONNECTED
FOR THIS TEST, OUTPUT CURRENT ROTARY
SWITCH SET TO 700mA. LRL65633-LF SURGE
PROTECTOR.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

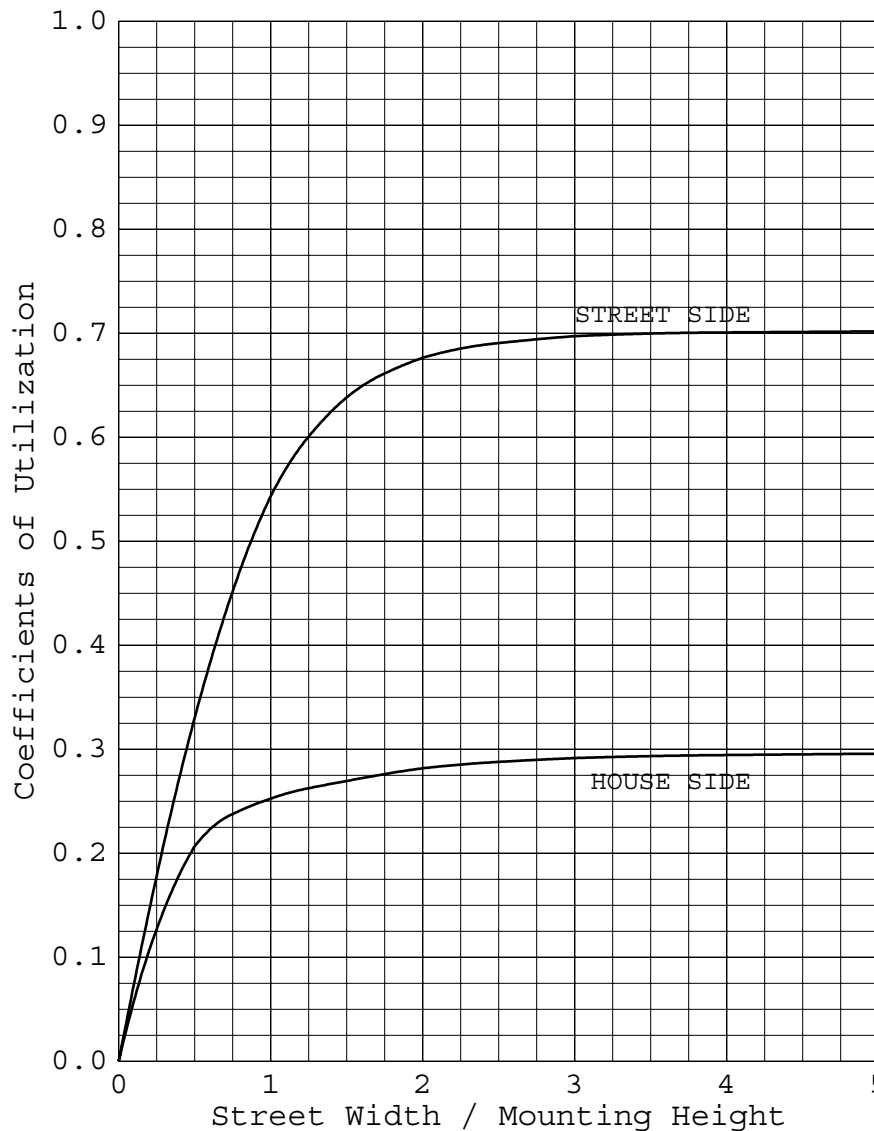




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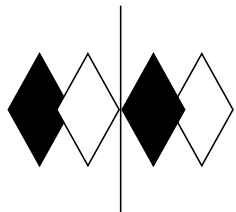
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	6168	70.3
DOWNWARD HOUSE SIDE	2611	29.7
DOWNWARD TOTAL	8778	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	8778	100.0

EFFICACY = 109.7 lm/W

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY.
THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE
LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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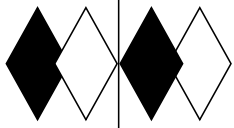
FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION
SYSTEM FOR OUTDOOR LUMINAIRES)

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	6168.	70.3	
FL (0- 30)	1213.0	13.8	
FM (30- 60)	3217.1	36.6	
FH (60- 80)	1708.5	19.5	G1
FVH(80- 90)	28.9	0.3	G1
BACK LIGHT	2611.	29.7	
BL (0- 30)	787.0	9.0	B2
BM (30- 60)	1301.3	14.8	B2
BH (60- 80)	508.2	5.8	B2 G2
BVH(80- 90)	14.2	0.2	G1
UPLIGHT	0.	0.0	
UL (90-100)	0.0	0.0	U0
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	8778.	100.0	

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B2 U0 G2



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CANDELA TABULATION

	STREET SIDE										
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	73.0	75.0	85.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	4.	4.	4.	4.	4.	4.	5.	5.	5.	5.
	85.0	12.	13.	15.	14.	15.	17.	18.	25.	21.	17.
V	82.5	32.	31.	35.	37.	39.	66.	96.	148.	115.	78.
E	80.0	57.	56.	64.	67.	78.	185.	313.	536.	478.	296.
R	77.5	86.	87.	97.	110.	168.	375.	738.	1484.	1340.	896.
T	75.0	123.	125.	144.	185.	317.	749.	1395.	2609.	2553.	1818.
I	72.5	176.	177.	218.	309.	557.	1140.	2079.	3595.	3554.	2645.
C	70.0	301.	299.	359.	511.	869.	1520.	2540.	4173.	4156.	3295.
A	67.5	453.	459.	542.	745.	1169.	1844.	2916.	4375.	4352.	3573.
L	67.0<<	484.	491.	580.	791.	1220.	1903.	2982.	4117.	4379.	3599.
	65.0	606.	619.	724.	947.	1397.	2125.	3218.	4151.	4360.	3661.
A	62.5	761.	769.	878.	1102.	1597.	2382.	3425.	4140.	4292.	3697.
N	60.0	898.	903.	1015.	1246.	1788.	2599.	3546.	4095.	4201.	3706.
G	57.5	1008.	1028.	1151.	1396.	1969.	2799.	3604.	4044.	4114.	3702.
L	55.0	1149.	1169.	1298.	1552.	2116.	2948.	3628.	3990.	4036.	3698.
E	52.5	1312.	1322.	1446.	1712.	2242.	3041.	3625.	3933.	3958.	3686.
	50.0	1474.	1491.	1610.	1856.	2350.	3084.	3604.	3866.	3880.	3667.
	47.5	1635.	1648.	1759.	1973.	2434.	3081.	3547.	3786.	3807.	3639.
	45.0	1785.	1783.	1882.	2086.	2491.	3055.	3483.	3698.	3730.	3596.
	42.5	1921.	1915.	2010.	2193.	2539.	3040.	3414.	3601.	3648.	3529.
	40.0	2039.	2037.	2124.	2298.	2598.	3025.	3326.	3512.	3568.	3450.
	37.5	2153.	2147.	2232.	2398.	2681.	3000.	3217.	3412.	3484.	3357.
	35.0	2261.	2256.	2338.	2492.	2790.	2956.	3113.	3302.	3380.	3243.
	30.0	2496.	2506.	2594.	2779.	2862.	2872.	2987.	3121.	3159.	2992.
	25.0	2765.	2770.	2793.	2795.	2800.	2881.	3012.	3037.	3020.	2849.
	20.0	2715.	2719.	2739.	2808.	2910.	3003.	3019.	2996.	2945.	2790.
	15.0	2946.	2954.	2963.	2993.	3010.	3004.	2987.	2941.	2864.	2758.
	10.0	2975.	2976.	2962.	2963.	2964.	2950.	2904.	2833.	2781.	2719.
	5.0	2862.	2852.	2840.	2826.	2809.	2785.	2757.	2729.	2710.	2677.
	0.0	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.
									PLANE OF MAXIMUM CANDELA		
									CONE OF MAXIMUM CANDELA		



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CANDELA TABULATION

	HOUSE SIDE										
	90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	4.	5.	4.	4.	3.	2.	1.	0.	0.	0.
	85.0	15.	14.	13.	12.	12.	15.	18.	17.	11.	1.
V	82.5	62.	38.	29.	27.	29.	41.	51.	68.	69.	24.
E	80.0	269.	137.	55.	52.	54.	76.	94.	105.	125.	133.
R	77.5	730.	399.	98.	87.	88.	113.	143.	157.	172.	200.
T	75.0	1462.	760.	158.	124.	128.	156.	197.	219.	229.	267.
I	72.5	2119.	1213.	253.	165.	172.	202.	254.	295.	325.	336.
C	70.0	2675.	1735.	418.	216.	210.	249.	318.	368.	406.	451.
A	67.5	2968.	2133.	624.	277.	250.	305.	385.	461.	516.	542.
L	67.0<<	3007.	2198.	669.	286.	256.	314.	398.	479.	538.	572.
	65.0	3129.	2415.	869.	335.	274.	344.	455.	542.	602.	646.
A	62.5	3240.	2619.	1129.	401.	291.	359.	509.	626.	678.	690.
N	60.0	3316.	2772.	1382.	481.	335.	352.	492.	639.	719.	741.
G	57.5	3366.	2887.	1624.	602.	403.	362.	421.	559.	662.	700.
L	55.0	3404.	2978.	1843.	767.	469.	399.	380.	433.	530.	582.
E	52.5	3424.	3038.	2016.	955.	522.	447.	418.	406.	427.	456.
	50.0	3428.	3078.	2151.	1132.	588.	502.	475.	461.	451.	456.
	47.5	3415.	3090.	2249.	1294.	689.	545.	521.	520.	525.	532.
	45.0	3380.	3083.	2314.	1427.	801.	591.	560.	563.	580.	600.
	42.5	3324.	3055.	2354.	1536.	913.	663.	595.	594.	603.	621.
	40.0	3257.	3011.	2373.	1626.	1022.	751.	642.	622.	625.	637.
	37.5	3174.	2950.	2368.	1702.	1133.	837.	716.	664.	651.	656.
	35.0	3074.	2867.	2342.	1777.	1252.	929.	791.	727.	694.	692.
	30.0	2851.	2682.	2307.	1922.	1510.	1168.	962.	861.	814.	804.
	25.0	2741.	2610.	2345.	2062.	1766.	1470.	1238.	1086.	993.	964.
	20.0	2716.	2617.	2420.	2212.	2005.	1785.	1589.	1443.	1325.	1290.
	15.0	2706.	2639.	2499.	2355.	2211.	2063.	1935.	1839.	1744.	1717.
	10.0	2687.	2647.	2561.	2476.	2391.	2298.	2219.	2165.	2112.	2098.
	5.0	2661.	2644.	2608.	2569.	2532.	2496.	2470.	2451.	2429.	2425.
	0.0	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.	2654.

CONE OF MAXIMUM CANDELA



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	63
5- 10	188
10- 15	305
15- 20	403
20- 25	483
25- 30	558
30- 35	628
35- 40	698
40- 45	758
45- 50	799
50- 55	814
55- 60	822
60- 65	797
65- 70	705
70- 75	500
75- 80	214
80- 85	40
85- 90	3
90- 95	0
95-100	0
100-105	0
105-110	0
110-115	0
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	252
0- 20	960
0- 30	2000
0- 40	3326
0- 50	4882
0- 60	6518
0- 70	8020
0- 80	8735
0- 90	8778
0-100	8778
0-110	8778
0-120	8778
0-130	8778
0-140	8778
0-150	8778
0-160	8778
0-170	8778
0-180	8778



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