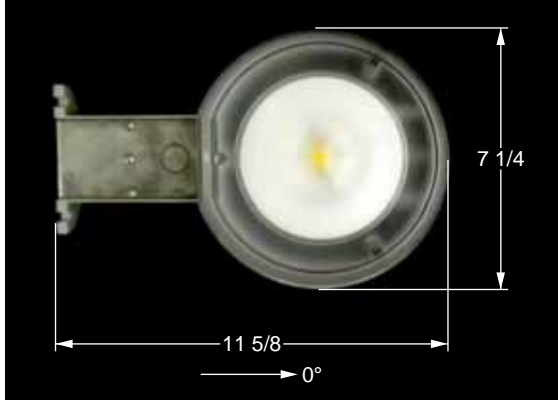




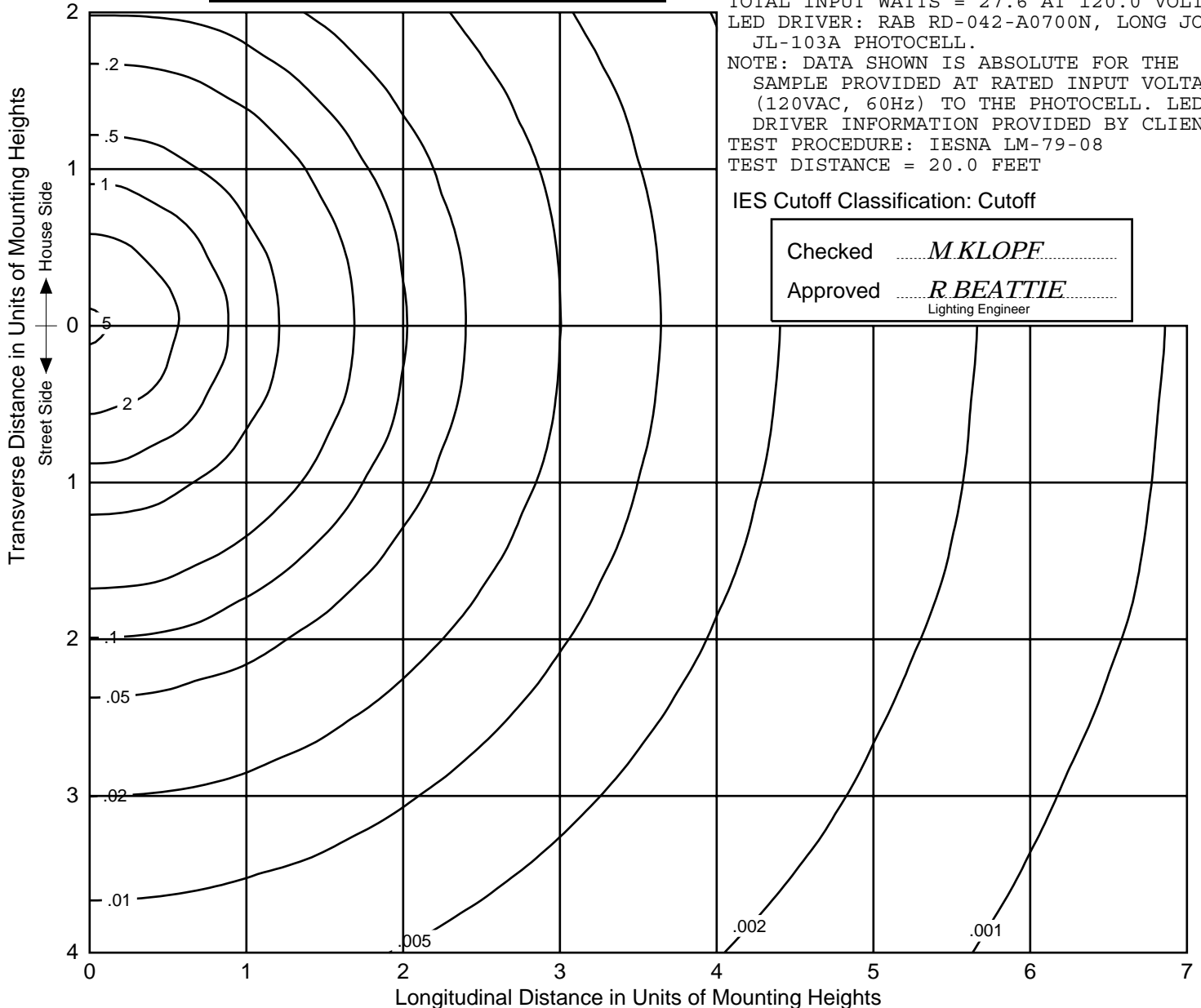
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 15 foot mounting height.



REPORT NUMBER: ITL79565
 ISSUE DATE: 10/25/13 PAGE: 1 OF 8
 PREPARED FOR: RAB LIGHTING, INC.
 CATALOG NUMBER: YBLED26N - YBLED26N-ARM (TYPE V)
 LUMINAIRE: CAST FINNED METAL HOUSING WITH WHITE PAINTED INTERIOR, 1 CIRCUIT BOARD WITH 1 LED WITH MOLDED WHITE PLASTIC TRIM, CLEAR INTERIOR FROSTED CYLINDRICAL LENS WITH RECESSED EXTERIOR-FROSTED CONVEX CENTER. CONVEX CENTER HAS CONCENTRIC CIRCULAR EXTERIOR PRISMS.
 LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.
 TOTAL INPUT WATTS = 27.6 AT 120.0 VOLTS
 LED DRIVER: RAB RD-042-A0700N, LONG JOIN JL-103A PHOTOCELL.
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE PHOTOCELL. LED DRIVER INFORMATION PROVIDED BY CLIENT.
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 20.0 FEET

IES Cutoff Classification: Cutoff

Checked *M.KLOPF*
 Approved *R.BEATTIE*
 Lighting Engineer





REPORT NUMBER: ITL79565
 ISSUE DATE: 10/25/13 PAGE: 2 OF 8
 PREPARED FOR: RAB LIGHTING, INC.
 CATALOG NUMBER: YBLED26N - YBLED26N-ARM
 (TYPE V)

LUMINAIRE: CAST FINNED METAL HOUSING WITH WHITE PAINTED INTERIOR, 1 CIRCUIT BOARD WITH 1 LED WITH MOLDED WHITE PLASTIC TRIM, CLEAR INTERIOR FROSTED CYLINDRICAL LENS WITH RECESSED EXTERIOR-FROSTED CONVEX CENTER. CONVEX CENTER HAS CONCENTRIC CIRCULAR EXTERIOR PRISMS.

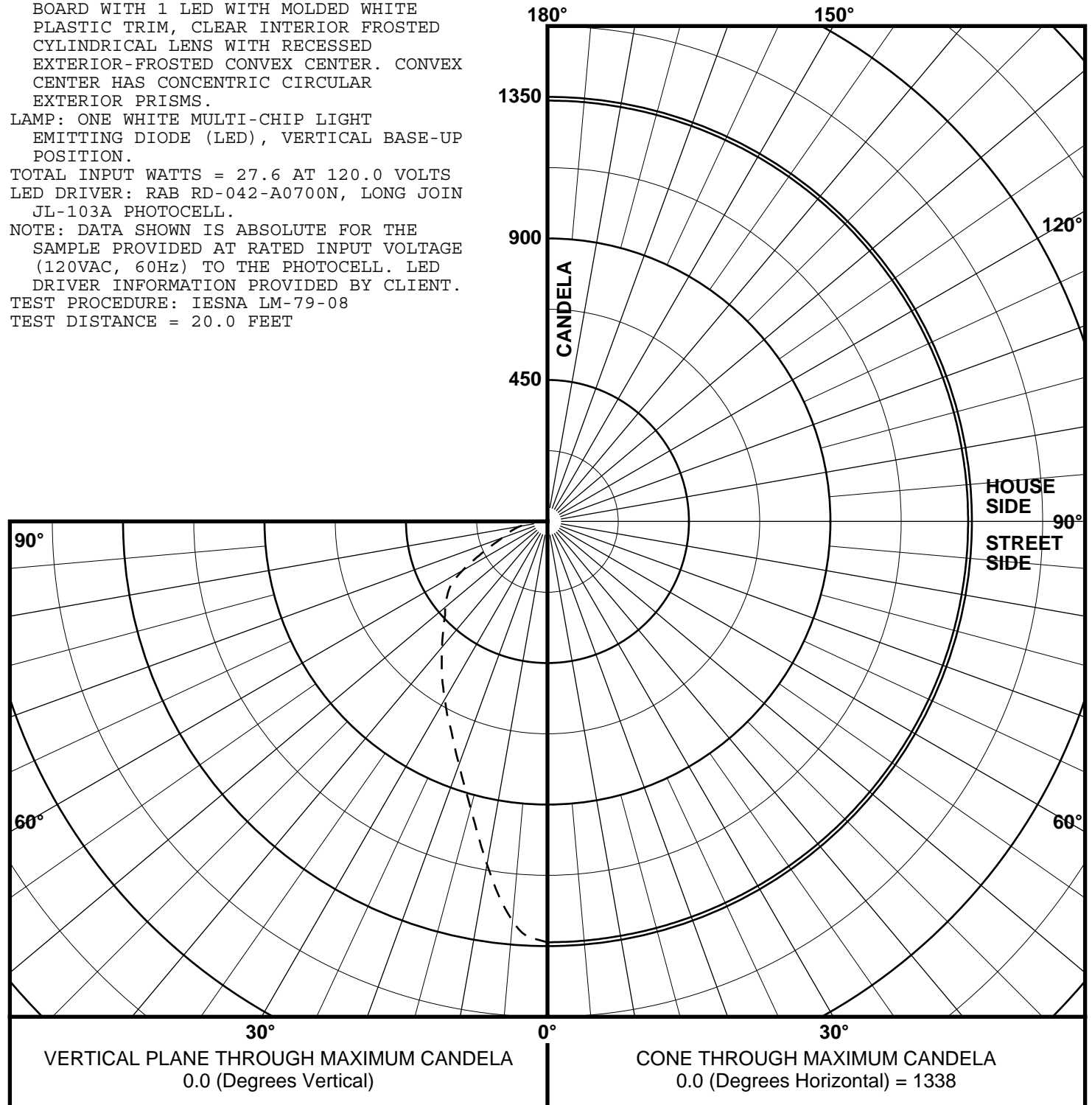
LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.

TOTAL INPUT WATTS = 27.6 AT 120.0 VOLTS
 LED DRIVER: RAB RD-042-A0700N, LONG JOIN JL-103A PHOTOCELL.

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

TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 20.0 FEET

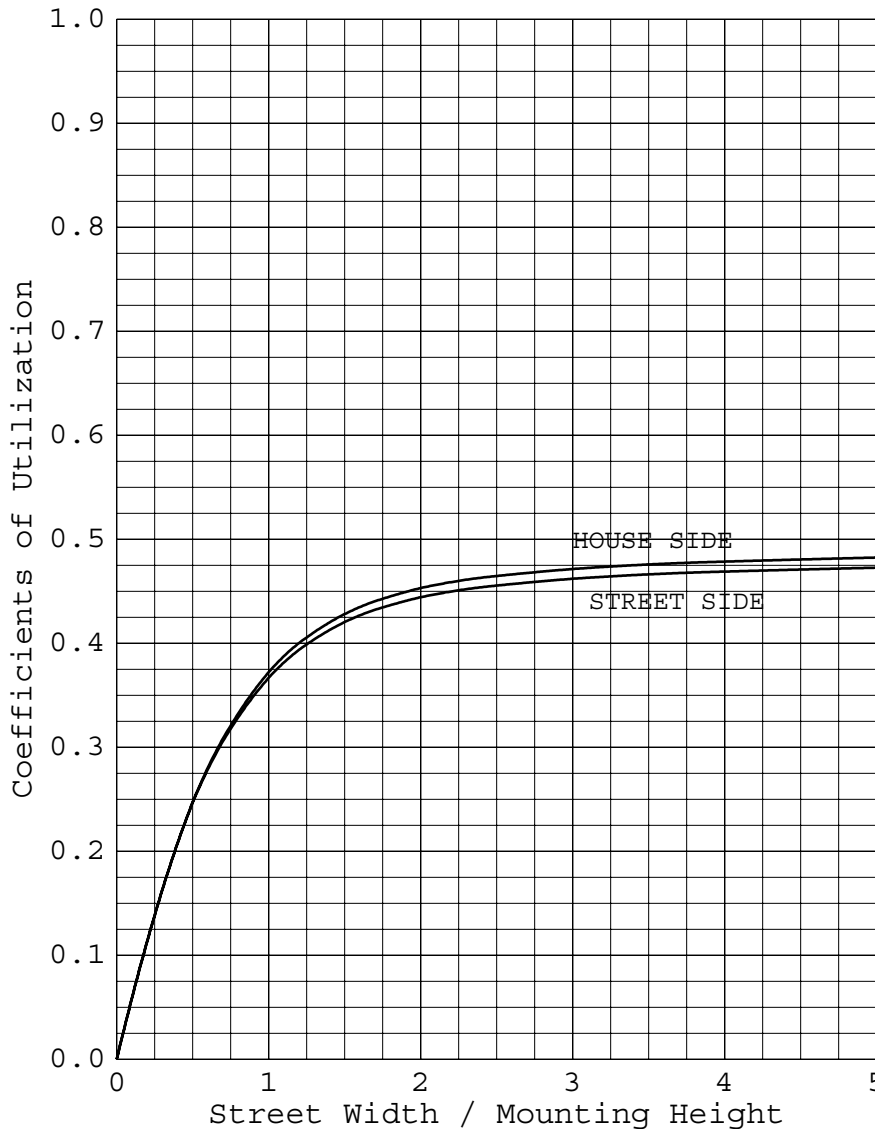
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



REPORT NUMBER: ITL79565
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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	1108	48.3
DOWNWARD HOUSE SIDE	1132	49.4
DOWNWARD TOTAL	2240	97.7
UPWARD STREET SIDE	28	1.2
UPWARD HOUSE SIDE	26	1.1
UPWARD TOTAL	53	2.3
TOTAL FLUX	2293	100.0

EFFICACY = 83.1 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.



INDEPENDENT TESTING LABORATORIES, INC.
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REPORT NUMBER: ITL79565
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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	1108.	48.3		
FL (0- 30)	358.2	15.6		
FM (30- 60)	540.1	23.6		
FH (60- 80)	176.9	7.7		G0
FVH(80- 90)	32.7	1.4		G1
BACK LIGHT	1132.	49.4		
BL (0- 30)	358.6	15.6	B1	
BM (30- 60)	554.8	24.2	B1	
BH (60- 80)	184.1	8.0	B1	G0
BVH(80- 90)	34.3	1.5		G1
UPLIGHT	53.	2.3		
UL (90-100)	28.2	1.2		U2
UH (100-180)	25.2	1.1		U2
TRAPPED LIGHT	0.	0.0		
TOTAL FLUX	2293.	100.0		

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

BUG RATING: B1 U2 G1



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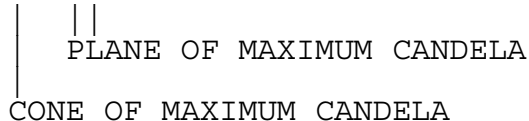
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CANDELA TABULATION

	STREET SIDE											
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	90.0	
	180.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
	145.0	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
	135.0	3.	3.	3.	3.	3.	2.	2.	3.	3.	3.	3.
	125.0	5.	5.	5.	5.	4.	4.	4.	4.	4.	5.	5.
	115.0	8.	8.	8.	7.	7.	7.	7.	8.	8.	8.	8.
	105.0	11.	11.	12.	12.	11.	11.	11.	11.	11.	11.	11.
	95.0	25.	25.	25.	25.	25.	25.	25.	24.	24.	24.	25.
	92.5	31.	31.	32.	32.	32.	31.	31.	30.	30.	30.	30.
	90.0	39.	39.	39.	39.	39.	39.	38.	37.	38.	37.	38.
	87.5	49.	49.	49.	48.	48.	48.	47.	46.	47.	46.	46.
	85.0	60.	60.	60.	59.	59.	59.	59.	57.	57.	56.	57.
V	82.5	73.	73.	73.	73.	72.	72.	72.	70.	71.	69.	70.
E	80.0	89.	89.	88.	88.	87.	87.	87.	85.	86.	84.	85.
R	77.5	105.	105.	105.	104.	104.	104.	103.	102.	101.	100.	101.
T	75.0	121.	121.	121.	122.	121.	121.	120.	119.	118.	117.	118.
I	72.5	136.	136.	137.	138.	137.	137.	136.	135.	135.	134.	135.
C	70.0	154.	154.	156.	156.	156.	157.	157.	158.	159.	157.	157.
A	67.5	181.	181.	184.	185.	183.	184.	187.	189.	190.	188.	188.
L	65.0	217.	217.	221.	222.	219.	223.	225.	228.	230.	231.	232.
	62.5	262.	263.	268.	269.	266.	269.	272.	275.	277.	279.	280.
A	60.0	312.	313.	319.	319.	314.	318.	319.	321.	322.	323.	324.
N	57.5	354.	355.	361.	359.	354.	356.	357.	358.	359.	359.	360.
G	55.0	384.	385.	390.	388.	383.	383.	383.	383.	384.	384.	384.
L	52.5	405.	406.	411.	412.	406.	408.	407.	407.	408.	407.	408.
E	50.0	425.	426.	430.	431.	429.	428.	429.	427.	427.	427.	428.
	47.5	442.	443.	448.	450.	450.	451.	452.	450.	450.	449.	449.
	45.0	467.	469.	473.	477.	479.	480.	480.	477.	477.	475.	475.
	42.5	493.	494.	499.	503.	506.	508.	508.	504.	503.	501.	501.
	40.0	522.	523.	528.	532.	535.	538.	537.	533.	531.	530.	532.
	37.5	552.	553.	557.	561.	565.	568.	566.	562.	561.	560.	562.
	35.0	586.	585.	587.	591.	594.	598.	596.	593.	591.	592.	593.
	32.5	619.	617.	619.	622.	625.	629.	627.	625.	624.	624.	626.
	30.0	653.	652.	654.	656.	658.	661.	659.	658.	657.	659.	660.
	25.0	728.	730.	731.	730.	729.	729.	728.	728.	728.	730.	730.
	20.0	823.	825.	823.	821.	817.	815.	812.	812.	810.	811.	810.
	15.0	944.	944.	945.	939.	935.	935.	931.	930.	928.	927.	926.
	10.0	1107.	1107.	1110.	1105.	1102.	1105.	1104.	1103.	1101.	1101.	1099.
	5.0	1275.	1274.	1277.	1274.	1272.	1275.	1274.	1274.	1272.	1272.	1270.
	0.0<<	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.





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CANDELA TABULATION

	HOUSE SIDE		LATERAL ANGLE							
	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	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.
145.0	2.	2.	2.	1.	1.	1.	1.	1.	1.	1.
135.0	3.	3.	3.	2.	2.	2.	2.	1.	1.	1.
125.0	5.	4.	4.	4.	4.	4.	3.	3.	1.	1.
115.0	8.	8.	8.	7.	7.	7.	6.	3.	1.	1.
105.0	11.	12.	12.	11.	11.	11.	10.	7.	4.	3.
95.0	25.	25.	26.	26.	27.	27.	27.	23.	23.	22.
92.5	31.	31.	32.	32.	33.	34.	35.	34.	34.	34.
90.0	38.	39.	39.	40.	41.	42.	43.	43.	43.	42.
87.5	46.	47.	48.	49.	50.	51.	52.	53.	53.	53.
85.0	57.	58.	59.	60.	62.	63.	64.	65.	66.	66.
V 82.5	70.	71.	73.	73.	75.	76.	78.	79.	80.	80.
E 80.0	85.	87.	88.	89.	90.	92.	93.	94.	94.	94.
R 77.5	101.	103.	104.	105.	107.	109.	110.	110.	109.	108.
T 75.0	118.	120.	122.	122.	125.	126.	127.	125.	122.	121.
I 72.5	135.	138.	140.	140.	142.	144.	145.	141.	135.	133.
C 70.0	159.	160.	163.	164.	166.	168.	168.	161.	151.	148.
A 67.5	190.	193.	196.	197.	200.	202.	202.	190.	173.	170.
L 65.0	232.	235.	239.	242.	244.	246.	247.	229.	212.	209.
62.5	279.	284.	288.	291.	294.	297.	297.	277.	259.	256.
A 60.0	325.	328.	331.	335.	338.	340.	340.	327.	309.	307.
N 57.5	361.	363.	366.	370.	373.	376.	375.	365.	353.	353.
G 55.0	384.	386.	390.	393.	398.	398.	398.	394.	387.	387.
L 52.5	408.	409.	413.	418.	422.	424.	422.	417.	413.	413.
E 50.0	427.	428.	431.	436.	441.	443.	443.	441.	438.	437.
47.5	449.	451.	454.	459.	466.	469.	469.	467.	467.	466.
45.0	475.	477.	480.	485.	492.	496.	497.	496.	495.	493.
42.5	502.	505.	508.	513.	521.	525.	528.	527.	528.	526.
40.0	532.	534.	538.	542.	550.	555.	560.	559.	561.	559.
37.5	563.	567.	570.	575.	581.	588.	592.	591.	593.	591.
35.0	594.	600.	603.	607.	613.	618.	624.	623.	626.	626.
32.5	628.	633.	636.	639.	644.	650.	654.	656.	658.	658.
30.0	661.	666.	670.	672.	676.	681.	686.	689.	691.	690.
25.0	731.	734.	739.	743.	744.	747.	749.	752.	753.	754.
20.0	811.	813.	816.	817.	819.	818.	819.	821.	818.	822.
15.0	926.	924.	924.	922.	921.	918.	914.	915.	912.	911.
10.0	1098.	1095.	1086.	1087.	1079.	1075.	1072.	1070.	1070.	1069.
5.0	1270.	1267.	1261.	1261.	1255.	1255.	1250.	1248.	1248.	1247.
0.0<<	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.	1338.

CONE OF MAXIMUM CANDELA



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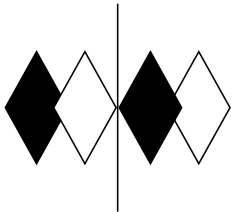
PAGE: 7 OF 8

5-DEGREE
 ZONAL LUMEN SUMMARY

0- 5	31
5- 10	84
10- 15	119
15- 20	143
20- 25	162
25- 30	177
30- 35	187
35- 40	190
40- 45	189
45- 50	184
50- 55	179
55- 60	166
60- 65	135
65- 70	97
70- 75	73
75- 80	56
80- 85	40
85- 90	27
90- 95	18
95-100	11
100-105	7
105-110	5
110-115	4
115-120	3
120-125	2
125-130	2
130-135	1
135-140	1
140-145	1
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	115
0- 20	377
0- 30	717
0- 40	1094
0- 50	1467
0- 60	1812
0- 70	2044
0- 80	2173
0- 90	2240
0-100	2268
0-110	2279
0-120	2286
0-130	2290
0-140	2292
0-150	2293
0-160	2293
0-170	2293
0-180	2293



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PAGE: 8 OF 8

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

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Page 1 of 4

REPORT NUMBER: ITL79568
DATE: 10/29/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: YBLED26- YBLED26N-ARM (TYPE V)

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING WITH WHITE PAINTED INTERIOR, 1 CIRCUIT BOARD WITH 1 LED WITH MOLDED WHITE PLASTIC TRIM, CLEAR INTERIOR FROSTED CYLINDRICAL LENS WITH RECESSED EXTERIOR-FROSTED CONVEX CENTER. CONVEX CENTER HAS CONCENTRIC CIRCULAR EXTERIOR PRISMS.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), VERTICAL BASE-UP POSITION.

DRIVER: RAB RD-042-A0700N, LONG JOIN JL-103A PHOTOCELL.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120.0 AND 277.0 VAC, 60Hz) TO THE PHOTOCELL. LED DRIVER INFORMATION PROVIDED BY CLIENT.

INSTRUMENTS:	Associated Power Technologies APT5010 AC Power Source	Calibration Due: N/A
	Yokogawa WT210 Digital Power Meter #8	01/31/14
	Ocean Optics QE65000 Spectroradiometer	10/17/14
	ITL 1.5m Diameter Integrating Sphere S15-2, 4PI Geometry	10/17/14

OBJECT OF TEST: Measure the Total Radiant Flux*, Spectral Power Distribution (SPD), Correlated Color Temperature (CCT), Color Rendering Indices (CRIa,1-14), Chromaticity Coordinates (x,y; u'v'), ANSI C78.377 Duv, and electrical data including ANSI C82.77-2002 Power Factor (PF) and Total Harmonic Distortion (THD) to the test sample. Report Off-State Power. Measure electrical data including Total Harmonic Distortion (THD) at maximum rated voltage.

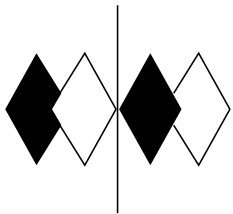
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were recorded and averaged. Readings were taken with the test sample operating at 120.0 VAC input. Electrical data was also recorded at maximum nominal rated input voltage (277.0 VAC). All testing performed in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. All data are traceable to the National Institute of Standards and Technology. Off-State Power was reported with no voltage applied to the sample.

*NOTE: Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.

RESULTS: (continued subsequent pages)

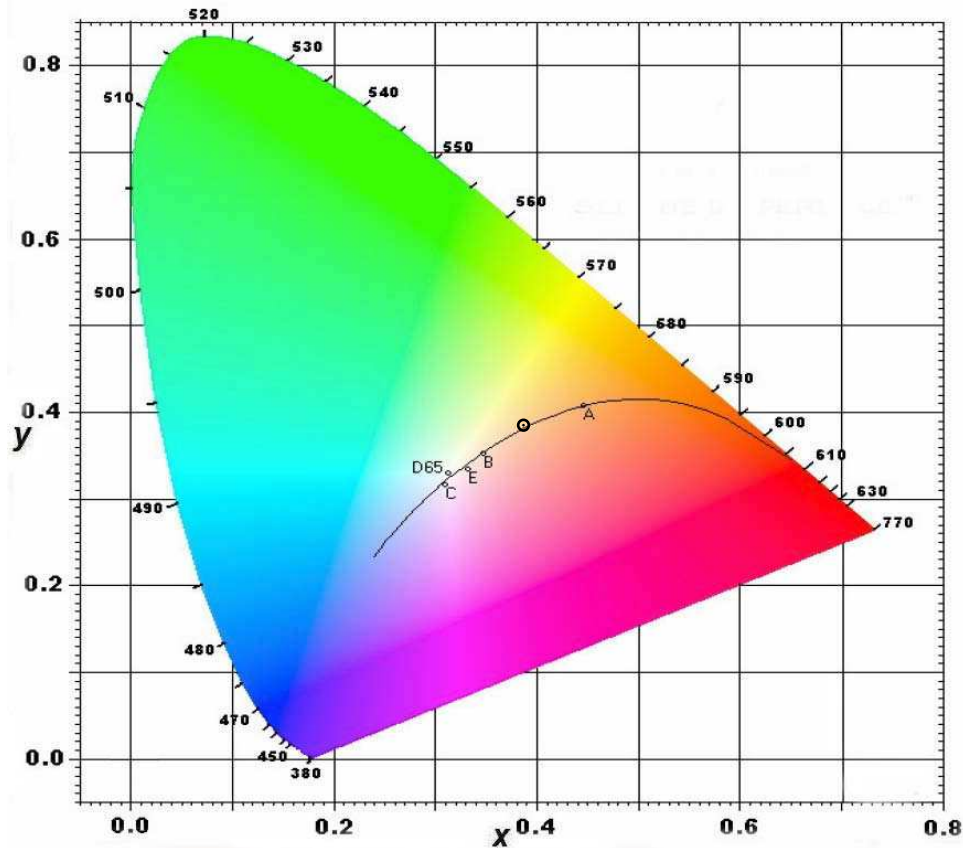
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Checked	<u>P O'CONNOR</u>
Approved	<u>L GRABA</u> Lighting Engineer



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CATALOG NUMBER: YBLED26N - YBLED26N-ARM (TYPE V)

CIE Chromaticity Diagram





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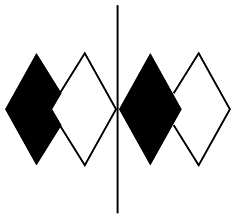
RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3866
Chromaticity Ordinate y	0.3847
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2260
Chromaticity Ordinate v'	0.5059
Correlated Color Temp CCT (K)	3895
ANSI C78.377-2008 Duv	0.002
Total Radiant Flux (milliWatts)	7110 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.231
Input Power (Watts)	27.6
Input Power Factor (%)	99.6
Input Current THD (%)	6.4
Input Voltage THD (%)	0.2
Off-State Power (Watts)	
	1.2
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.111
Input Power (Watts)	28.1
Input Power Factor (%)	91.4
Input Current THD (%)	10.4
Input Voltage THD (%)	0.3

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	84
R1 Light greyish red	83
R2 Dark greyish yellow	88
R3 Strong yellowish green	92
R4 Moderate yellowish green	86
R5 Light bluish green	84
R6 Light blue	85
R7 Light violet	88
R8 Light reddish purple	69
R9 Strong red	18
R10 Strong yellow	72
R11 Strong green	86
R12 Strong blue	65
R13 Light yellowish pink (skin)	84
R14 Moderate olive green (leaf)	95

*NOTE:

Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even when these effects are compensated for, are likely to have a greater variation in results compared to the flux output calculated from a goniophotometric exploration since these artifacts do not affect the goniophotometric results.



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REPORT NUMBER: ITL79568
 DATE: 10/29/13
 PREPARED FOR: RAB LIGHTING, INC.
 CATALOG NUMBER: YBLED26N- YBLED26N-ARM (TYPE V)

RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.195	515	26.865	650	22.600
385	0.217	520	28.567	655	20.517
390	0.253	525	29.630	660	18.481
395	0.311	530	30.289	665	16.532
400	0.403	535	30.657	670	14.639
405	0.642	540	30.891	675	12.890
410	1.069	545	31.128	680	11.361
415	1.799	550	31.488	685	10.053
420	3.250	555	32.009	690	8.936
425	5.795	560	32.763	695	7.917
430	9.919	565	33.678	700	6.996
435	15.773	570	34.768	705	6.122
440	24.218	575	35.902	710	5.356
445	34.743	580	37.010	715	4.689
450	37.863	585	38.004	720	4.105
455	29.072	590	38.800	725	3.594
460	19.966	595	39.297	730	3.146
465	14.795	600	39.390	735	2.752
470	11.092	605	39.018	740	2.405
475	9.081	610	38.211	745	2.100
480	8.899	615	36.984	750	1.838
485	9.952	620	35.416	755	1.608
490	12.023	625	33.523	760	1.415
495	15.012	630	31.406	765	1.249
500	18.350	635	29.180	770	1.097
505	21.670	640	26.952	775	0.967
510	24.560	645	24.762	780	0.852

