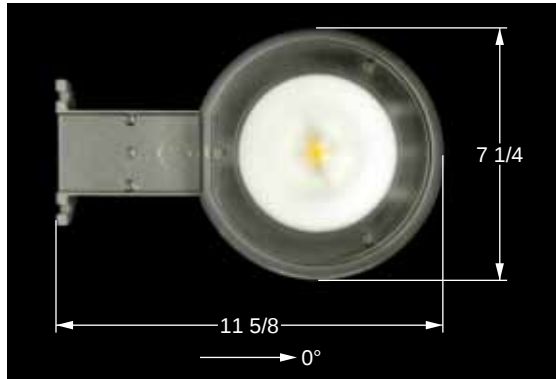


ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 15 foot mounting height.



REPORT NUMBER: ITL79564

ISSUE DATE: 10/25/13

PAGE: 1 OF 8

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: YBLED26Y - YBLED26Y-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 = 27.5 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.

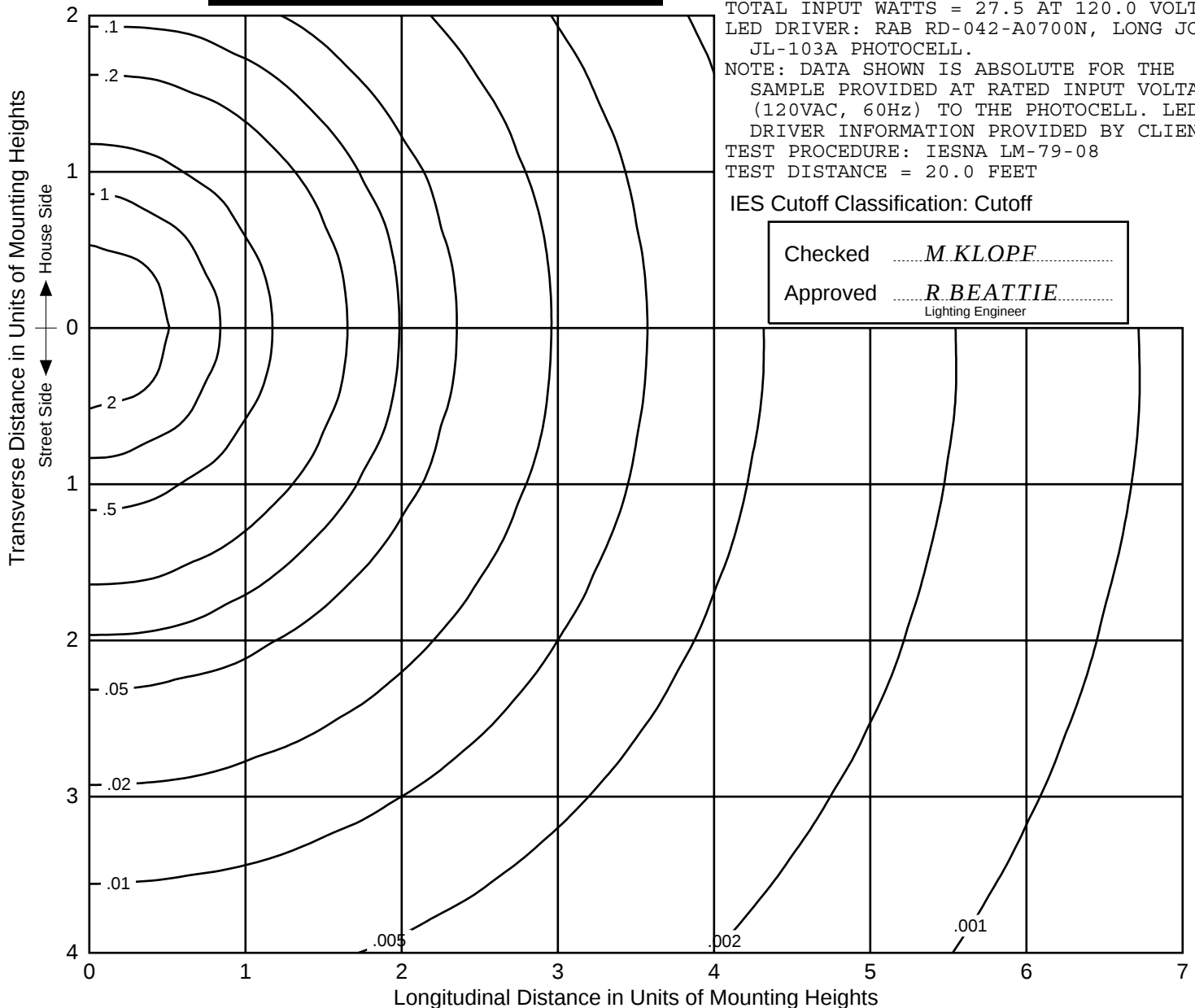
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

IES Cutoff Classification: Cutoff

CheckedM.KLOPF.....

ApprovedR.BEATTIE.....
Lighting Engineer



REPORT NUMBER: ITL79564
ISSUE DATE: 10/25/13 PAGE: 2 OF 8
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: YBLED26Y - YBLED26Y-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.

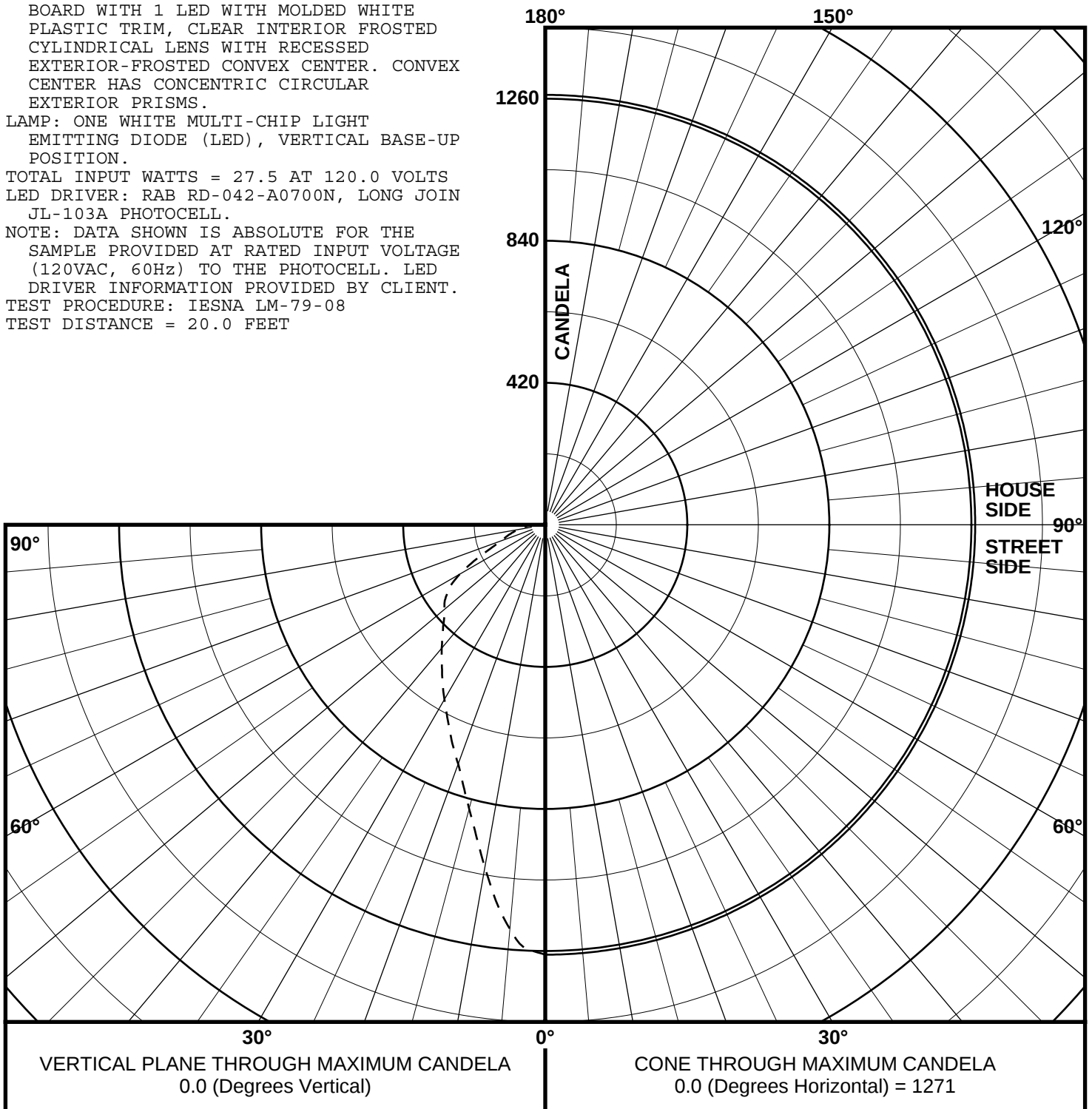
LAMP: ONE WHITE MULTI-CHIP LIGHT
EMITTING DIODE (LED), VERTICAL BASE-UP
POSITION.

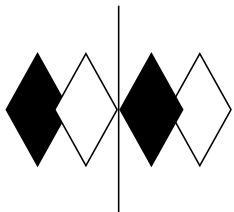
TOTAL INPUT WATTS = 27.5 AT 120.0 VOLTS
LED DRIVER: RAB RD-042-A0700N, LONG JOIN
JL-103A PHOTOCELL.

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

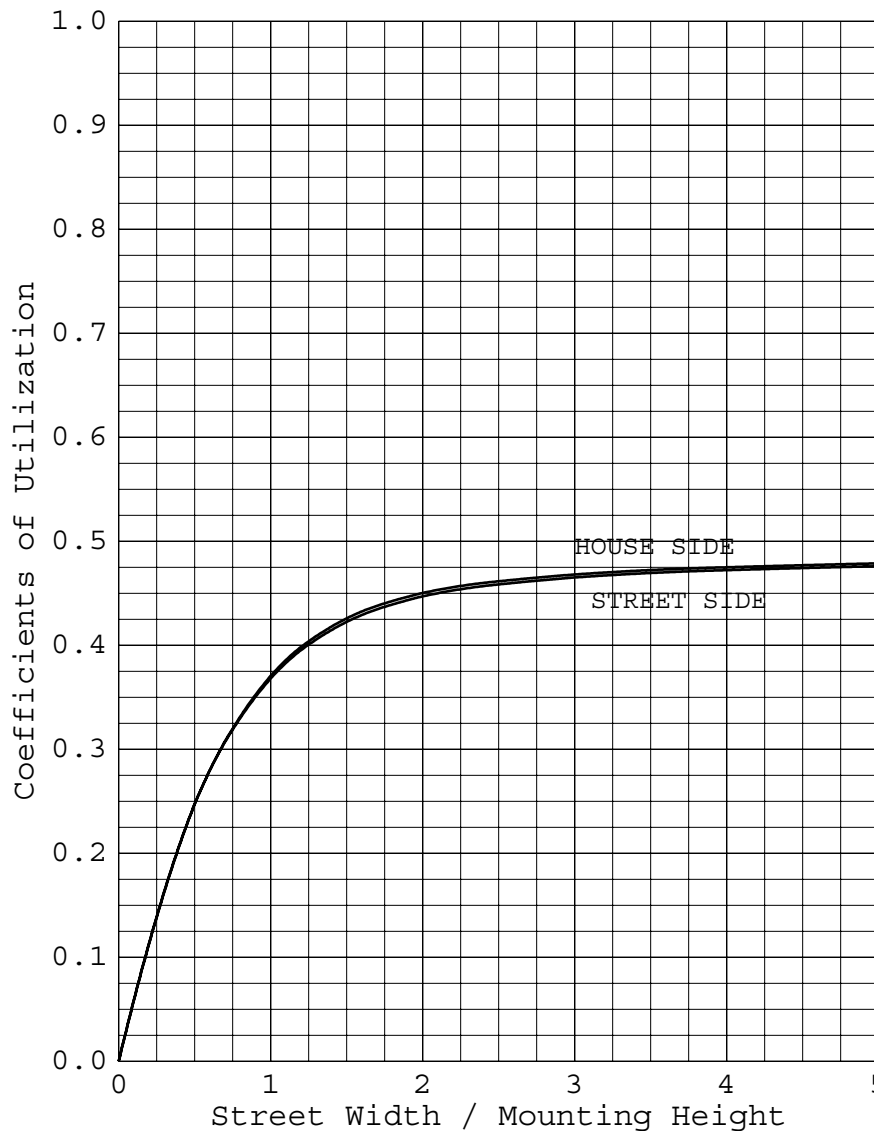




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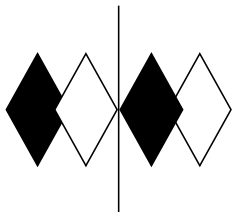
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	1022	48.7
DOWNWARD HOUSE SIDE	1028	49.0
DOWNWARD TOTAL	2050	97.6
UPWARD STREET SIDE	26	1.3
UPWARD HOUSE SIDE	23	1.1
UPWARD TOTAL	50	2.4
TOTAL FLUX	2100	100.0

EFFICACY = 76.4 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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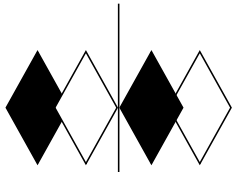
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	1022.	48.7	
FL (0- 30)	329.4	15.7	
FM (30- 60)	496.1	23.6	
FH (60- 80)	165.9	7.9	G0
FVH(80- 90)	30.9	1.5	G1
BACK LIGHT	1028.	49.0	
BL (0- 30)	328.4	15.6	B1
BM (30- 60)	503.2	24.0	B1
BH (60- 80)	165.7	7.9	B1 G0
BVH(80- 90)	30.6	1.5	G1
UPLIGHT	50.	2.4	
UL (90-100)	25.8	1.2	U2
UH (100-180)	23.9	1.1	U2
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	2100.	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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NVLAP LAB CODE: 200925-0

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PAGE: 5 OF 8

CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE										
		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	0.	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.	2.	2.	2.	2.	2.	2.	2.
	125.0	5.	5.	4.	4.	4.	4.	4.	4.	4.	4.	4.
	115.0	7.	7.	7.	7.	7.	7.	7.	7.	8.	8.	8.
	105.0	10.	10.	11.	11.	11.	11.	11.	11.	11.	11.	11.
	95.0	23.	23.	24.	24.	24.	24.	23.	23.	23.	22.	23.
	92.5	29.	29.	30.	30.	30.	30.	29.	28.	28.	28.	28.
	90.0	36.	36.	37.	37.	37.	37.	36.	35.	35.	35.	35.
	87.5	44.	45.	45.	46.	46.	45.	45.	44.	43.	43.	43.
	85.0	55.	55.	56.	56.	57.	56.	56.	54.	53.	53.	53.
V	82.5	67.	67.	68.	69.	70.	69.	69.	67.	66.	66.	65.
E	80.0	81.	81.	82.	83.	84.	85.	83.	82.	80.	80.	79.
R	77.5	95.	95.	97.	98.	100.	100.	99.	97.	95.	95.	94.
T	75.0	109.	109.	111.	113.	115.	116.	115.	113.	112.	110.	110.
I	72.5	123.	123.	126.	127.	130.	131.	130.	129.	128.	126.	126.
C	70.0	138.	139.	143.	146.	148.	149.	149.	149.	149.	147.	147.
A	67.5	164.	164.	169.	171.	172.	173.	174.	175.	175.	174.	173.
L	65.0	200.	203.	207.	209.	210.	211.	212.	214.	215.	214.	214.
	62.5	246.	249.	254.	255.	254.	254.	256.	258.	259.	258.	259.
A	60.0	291.	294.	299.	298.	296.	296.	299.	301.	301.	300.	301.
N	57.5	329.	331.	335.	334.	331.	331.	332.	334.	335.	334.	334.
G	55.0	354.	356.	360.	358.	354.	354.	355.	357.	358.	357.	357.
L	52.5	375.	377.	381.	380.	377.	377.	378.	380.	380.	380.	379.
E	50.0	389.	391.	395.	396.	394.	394.	395.	396.	395.	395.	394.
	47.5	405.	407.	411.	413.	413.	414.	415.	415.	414.	413.	412.
	45.0	427.	429.	433.	437.	439.	440.	440.	438.	436.	435.	434.
	42.5	450.	452.	456.	460.	463.	465.	464.	461.	459.	458.	457.
	40.0	476.	478.	481.	486.	490.	492.	490.	486.	483.	482.	482.
	37.5	503.	506.	508.	513.	517.	519.	517.	512.	509.	508.	509.
	35.0	532.	534.	535.	540.	544.	546.	544.	539.	537.	536.	537.
	32.5	564.	564.	564.	568.	572.	574.	572.	568.	566.	566.	567.
	30.0	596.	596.	597.	598.	602.	602.	601.	598.	596.	597.	597.
	25.0	669.	669.	668.	667.	668.	667.	664.	664.	662.	663.	663.
	20.0	753.	756.	756.	752.	748.	746.	743.	742.	740.	739.	738.
	15.0	869.	872.	868.	867.	862.	860.	855.	854.	851.	850.	849.
	10.0	1028.	1032.	1029.	1030.	1026.	1027.	1023.	1024.	1022.	1021.	1019.
	5.0	1200.	1204.	1203.	1203.	1202.	1202.	1201.	1201.	1200.	1198.	1197.
	0.0<<	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.

||
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA



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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.
	175.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	165.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	155.0	1.	1.	1.	1.	1.	0.	0.	0.	0.
	145.0	2.	2.	2.	1.	1.	1.	1.	1.	1.
	135.0	2.	2.	2.	2.	2.	2.	1.	1.	1.
	125.0	4.	4.	4.	4.	4.	3.	3.	2.	1.
	115.0	8.	7.	7.	7.	6.	6.	6.	3.	1.
	105.0	11.	11.	10.	10.	10.	10.	9.	6.	4.
	95.0	23.	23.	23.	23.	23.	23.	23.	20.	19.
	92.5	28.	29.	29.	29.	29.	30.	30.	30.	29.
	90.0	35.	35.	35.	35.	36.	37.	37.	37.	37.
	87.5	43.	43.	43.	44.	44.	45.	46.	46.	47.
	85.0	53.	53.	53.	54.	54.	55.	56.	57.	58.
V	82.5	65.	66.	66.	66.	66.	68.	68.	69.	70.
E	80.0	79.	79.	79.	79.	80.	82.	82.	83.	83.
R	77.5	94.	95.	95.	94.	95.	97.	97.	97.	96.
T	75.0	110.	110.	110.	110.	111.	113.	113.	111.	109.
I	72.5	126.	127.	127.	126.	127.	129.	128.	125.	120.
C	70.0	148.	149.	150.	149.	149.	151.	150.	143.	133.
A	67.5	174.	176.	178.	176.	177.	178.	175.	168.	154.
L	65.0	215.	217.	219.	218.	219.	220.	216.	203.	183.
	62.5	259.	262.	264.	263.	264.	265.	261.	245.	227.
A	60.0	301.	304.	306.	305.	306.	308.	305.	291.	273.
N	57.5	334.	337.	338.	339.	340.	341.	339.	331.	317.
G	55.0	357.	359.	360.	361.	363.	364.	363.	359.	350.
L	52.5	379.	379.	381.	383.	386.	386.	385.	380.	376.
E	50.0	394.	394.	395.	398.	401.	402.	402.	400.	396.
	47.5	412.	413.	414.	417.	421.	423.	423.	421.	421.
	45.0	434.	435.	436.	439.	444.	447.	449.	447.	445.
	42.5	457.	458.	460.	463.	469.	472.	474.	475.	473.
	40.0	482.	484.	487.	489.	495.	499.	503.	503.	503.
	37.5	510.	513.	515.	518.	523.	527.	531.	532.	532.
	35.0	539.	543.	545.	547.	551.	557.	560.	561.	561.
	32.5	569.	573.	576.	577.	580.	585.	589.	590.	590.
	30.0	600.	604.	607.	609.	610.	614.	618.	620.	621.
	25.0	665.	667.	671.	674.	674.	676.	679.	680.	682.
	20.0	739.	741.	744.	744.	745.	745.	745.	747.	746.
	15.0	849.	847.	847.	845.	844.	841.	840.	838.	835.
	10.0	1019.	1015.	1012.	1007.	1004.	1000.	998.	995.	991.
	5.0	1197.	1194.	1192.	1188.	1186.	1182.	1181.	1179.	1176.
	0.0<<	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.	1271.

CONE OF MAXIMUM CANDELA



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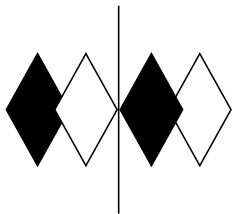
PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	29
5- 10	79
10- 15	110
15- 20	131
20- 25	148
25- 30	161
30- 35	169
35- 40	172
40- 45	172
45- 50	168
50- 55	165
55- 60	153
60- 65	124
65- 70	89
70- 75	67
75- 80	52
80- 85	37
85- 90	25
90- 95	16
95-100	10
100-105	6
105-110	5
110-115	4
115-120	3
120-125	2
125-130	1
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	108
0- 20	349
0- 30	658
0- 40	1000
0- 50	1339
0- 60	1657
0- 70	1870
0- 80	1989
0- 90	2050
0-100	2076
0-110	2087
0-120	2093
0-130	2097
0-140	2098
0-150	2099
0-160	2100
0-170	2100
0-180	2100



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PAGE: 8 OF 8

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

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REPORT NUMBER: ITL79567
DATE: 10/29/13
Page 1 of 4

PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: YBLED26Y - YBLED26-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 (CRI_a, 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.

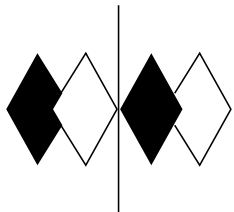
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were 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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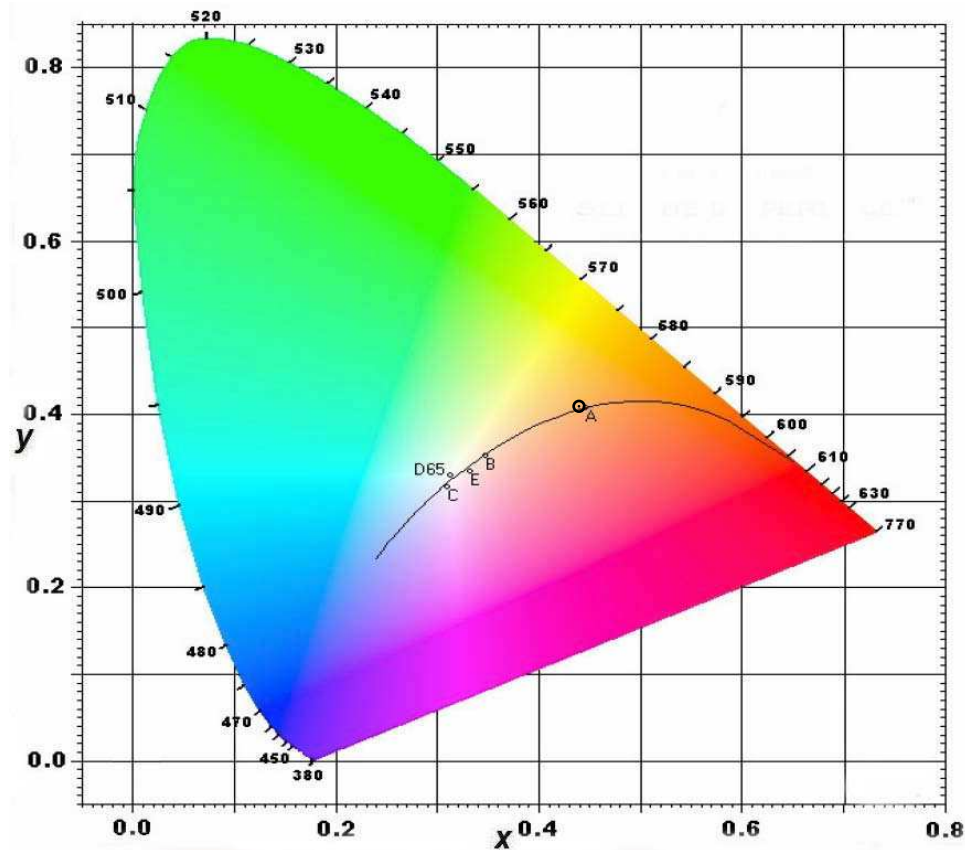
NVLAP
NVLAP LAB CODE: 200925-0

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CIE Chromaticity Diagram





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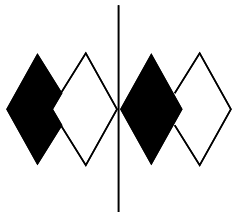
RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4393
Chromaticity Ordinate y	0.4088
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2501
Chromaticity Ordinate v'	0.5236
Correlated Color Temp CCT (K)	2997
ANSI C78.377-2008 Duv	0.002
Total Radiant Flux (milliWatts)	6446 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.232
Input Power (Watts)	27.7
Input Power Factor (%)	99.5
Input Current THD (%)	6.2
Input Voltage THD (%)	0.2
Off-State Power (Watts)	
	1.1
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.112
Input Power (Watts)	28.5
Input Power Factor (%)	91.9
Input Current THD (%)	10.3
Input Voltage THD (%)	0.3

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	83
R1 Light greyish red	81
R2 Dark greyish yellow	89
R3 Strong yellowish green	97
R4 Moderate yellowish green	82
R5 Light bluish green	81
R6 Light blue	87
R7 Light violet	84
R8 Light reddish purple	60
R9 Strong red	8
R10 Strong yellow	75
R11 Strong green	82
R12 Strong blue	68
R13 Light yellowish pink (skin)	82
R14 Moderate olive green (leaf)	98

*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: ITL79567
DATE: 10/29/13
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: YBLED26- YBLED26Y-ARM (TYPE V)

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.136	515	19.329	650	25.661
385	0.140	520	20.892	655	23.319
390	0.153	525	22.043	660	21.026
395	0.175	530	22.958	665	18.794
400	0.213	535	23.697	670	16.656
405	0.327	540	24.407	675	14.660
410	0.502	545	25.231	680	12.913
415	0.810	550	26.228	685	11.432
420	1.420	555	27.456	690	10.133
425	2.481	560	28.988	695	8.967
430	4.259	565	30.764	700	7.902
435	6.925	570	32.768	705	6.924
440	10.791	575	34.855	710	6.059
445	16.373	580	36.925	715	5.294
450	20.736	585	38.856	720	4.620
455	18.675	590	40.502	725	4.043
460	13.431	595	41.736	730	3.539
465	10.133	600	42.431	735	3.091
470	8.049	605	42.516	740	2.698
475	6.617	610	42.045	745	2.355
480	6.294	615	40.989	750	2.056
485	6.949	620	39.496	755	1.802
490	8.283	625	37.561	760	1.586
495	10.267	630	35.362	765	1.397
500	12.646	635	32.960	770	1.226
505	15.131	640	30.502	775	1.080
510	17.405	645	28.067	780	0.952

