

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

PHONE: (303) 442-1255

FAX: (970) 535-3114

E-MAIL: itl@itlboulder.com

WEBSITE: www.itlboulder.com

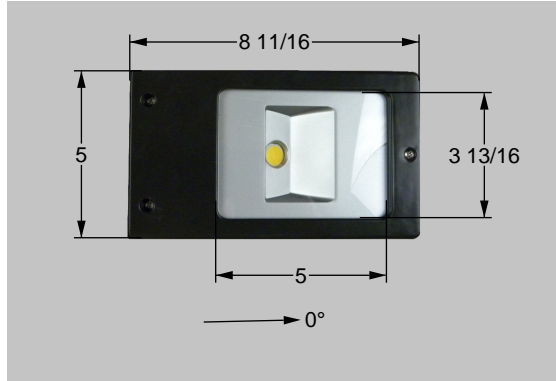
NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 15 foot mounting height.



REPORT NUMBER: ITL82636

ISSUE DATE: 09/03/14

PAGE: 1 OF 8

PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: WPLED10N (WALLPACK) -
ALED10N (AREA LIGHTER)

LUMINAIRE: CAST METAL HOUSING, ONE
CIRCUIT BOARD WITH ONE LED, MOLDED
PLASTIC REFLECTOR WITH SEMI-DIFFUSE
FINISH, CLEAR FLAT GLASS LENS IN CAST
BROWN PAINTED METAL FRAME.

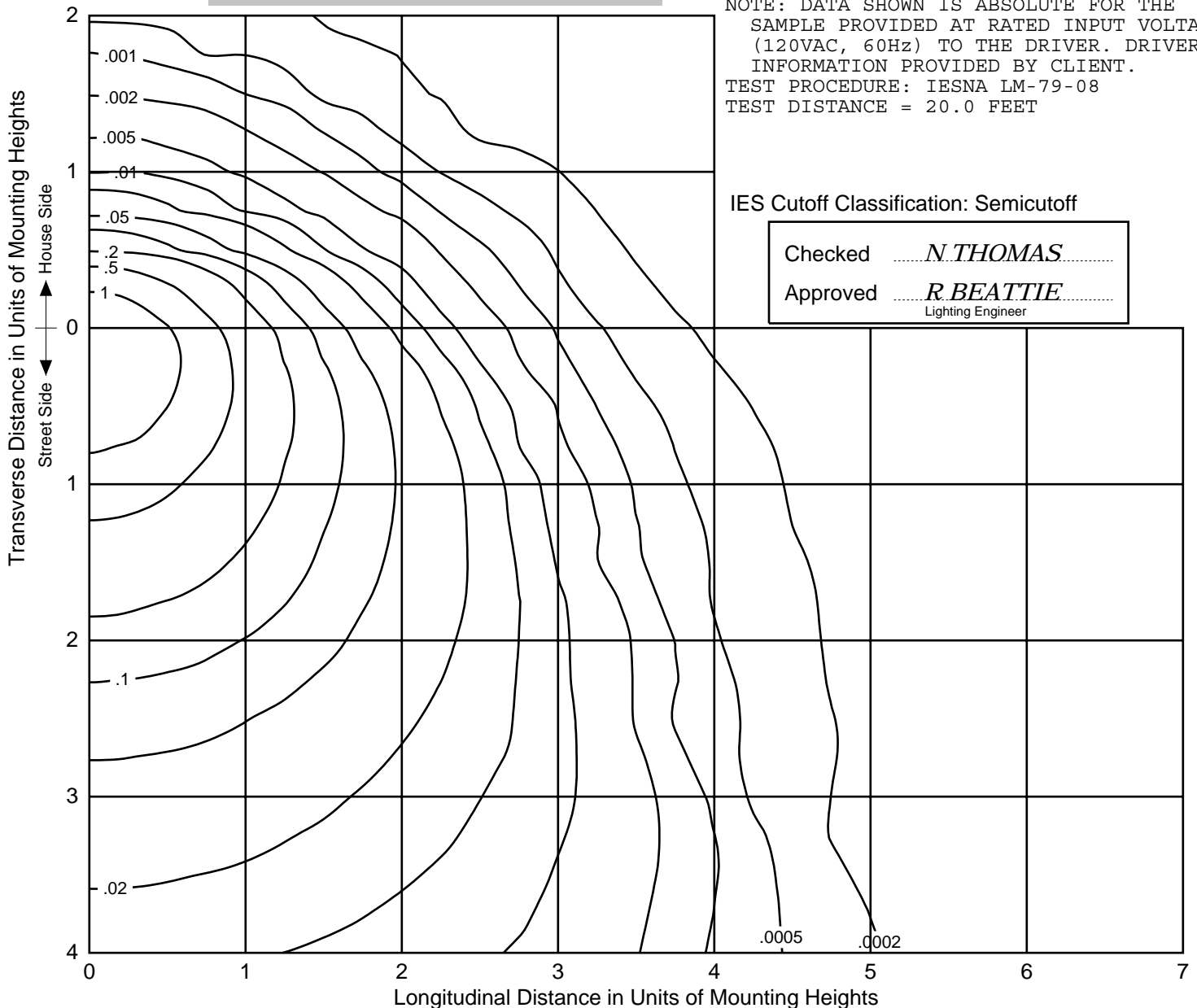
LAMP: ONE WHITE MULTI-CHIP LIGHT
EMITTING DIODE (LED), TILTED 30-
DEGREES FROM VERTICAL BASE-UP
POSITION.

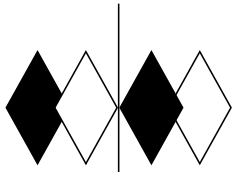
TOTAL INPUT WATTS = 12.0 AT 120.0 VOLTS
LED DRIVER: RAB LIGHTING RD113-36-C0280

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET





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PREPARED FOR: RAB LIGHTING, INC.

CATALOG NUMBER: WPLED10N (WALLPACK) -

ALED10N (AREA LIGHTER)

LUMINAIRE: CAST METAL HOUSING, ONE
CIRCUIT BOARD WITH ONE LED, MOLDED
PLASTIC REFLECTOR WITH SEMI-DIFFUSE
FINISH, CLEAR FLAT GLASS LENS IN CAST
BROWN PAINTED METAL FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT
EMITTING DIODE (LED), TILTED 30-
DEGREES FROM VERTICAL BASE-UP
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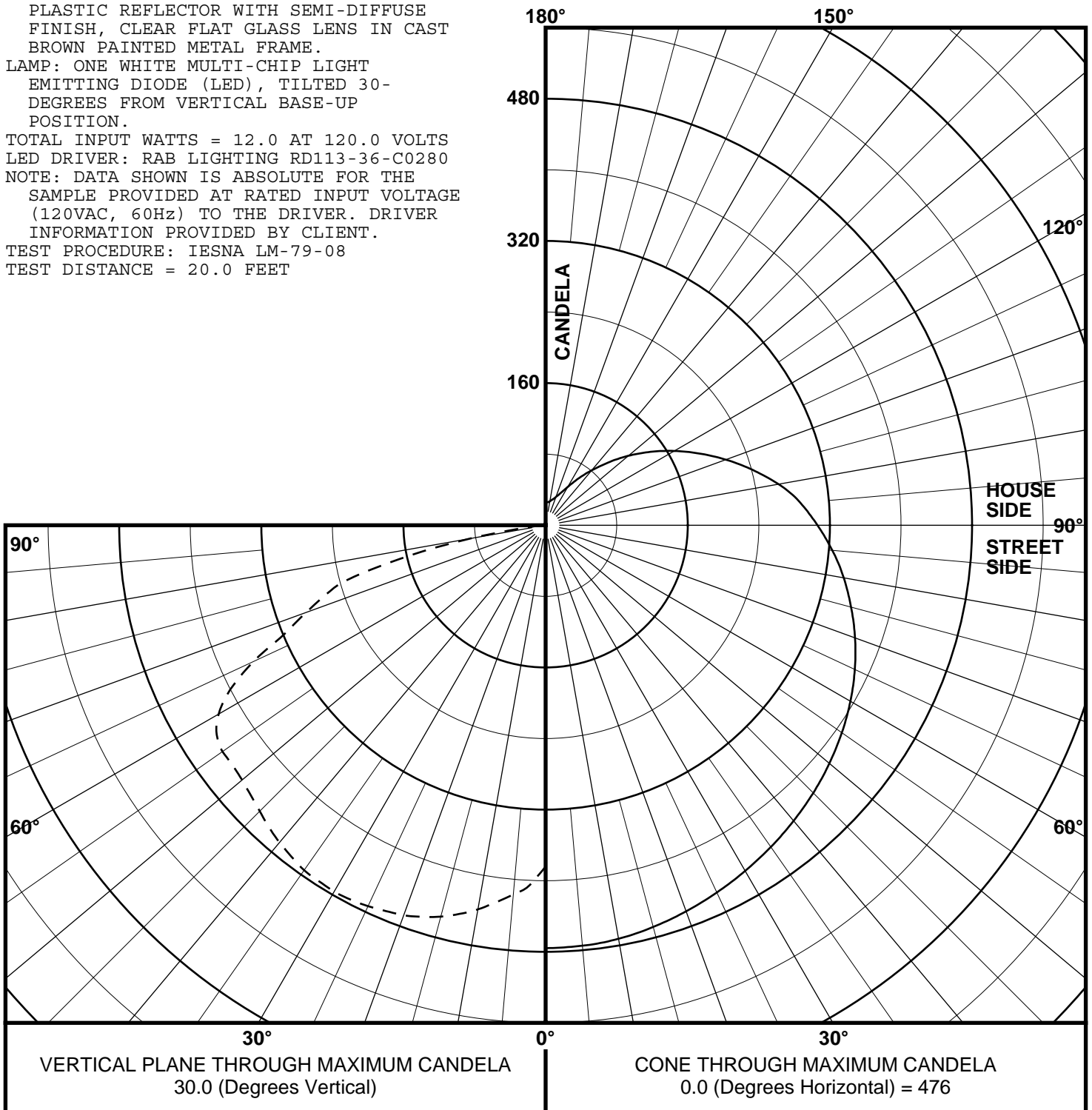
TOTAL INPUT WATTS = 12.0 AT 120.0 VOLTS
LED DRIVER: RAB LIGHTING RD113-36-C0280

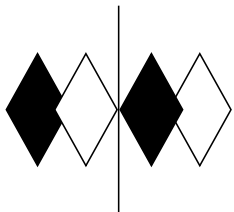
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED AT RATED INPUT VOLTAGE
(120VAC, 60Hz) TO THE DRIVER. DRIVER
INFORMATION PROVIDED BY CLIENT.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

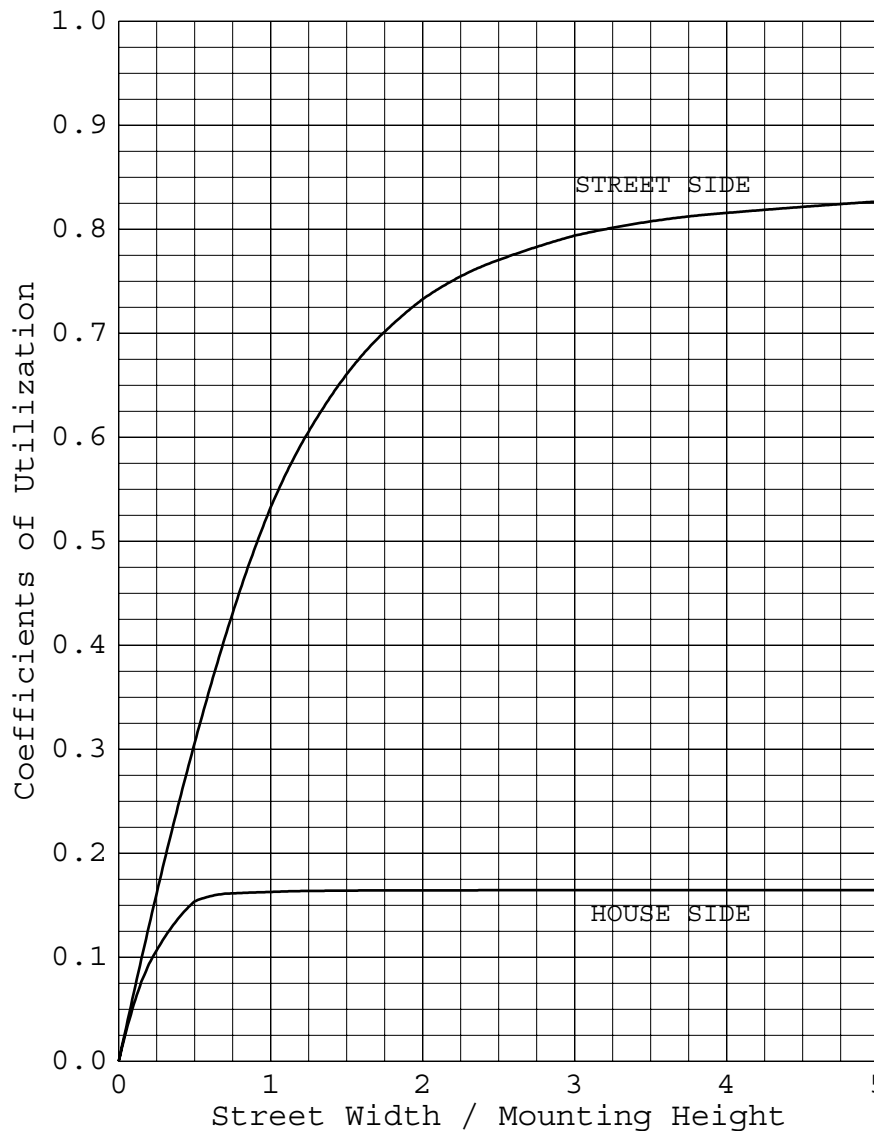




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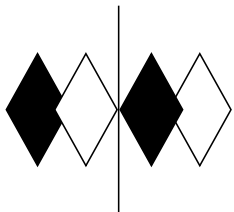
COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	764	83.5
DOWNWARD HOUSE SIDE	151	16.5
DOWNWARD TOTAL	915	100.0
UPWARD STREET SIDE	0	0.0
UPWARD HOUSE SIDE	0	0.0
UPWARD TOTAL	0	0.0
TOTAL FLUX	915	100.0

EFFICACY = 76.3 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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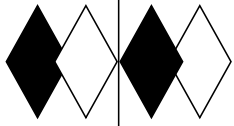
FLUX DISTRIBUTION BY SOLID ANGLE

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

	LUMENS	PERCENT OF FIXTURE	BUG ZONE RATINGS
FORWARD LIGHT	764.	83.5	
FL (0- 30)	176.0	19.2	
FM (30- 60)	406.7	44.4	
FH (60- 80)	174.5	19.1	G0
FVH(80- 90)	7.0	0.8	G0
BACK LIGHT	151.	16.5	
BL (0- 30)	94.7	10.3	B0
BM (30- 60)	54.0	5.9	B0
BH (60- 80)	2.4	0.3	B0 G0
BVH(80- 90)	0.0	0.0	G0
UPLIGHT	0.	0.0	
UL (90-100)	0.1	0.0	U1
UH (100-180)	0.0	0.0	U0
TRAPPED LIGHT	0.	0.0	
TOTAL FLUX	915.	100.0	

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

BUG RATING: B0 U1 G0



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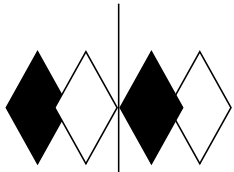
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CANDELA TABULATION

	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	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	2.	3.	2.	2.	1.	1.	0.	0.	0.	0.	0.
	87.5	6.	6.	6.	6.	4.	2.	1.	1.	0.	0.	0.
	85.0	11.	11.	10.	10.	8.	5.	3.	2.	1.	0.	0.
V	82.5	31.	34.	36.	41.	38.	10.	5.	3.	2.	1.	0.
E	80.0	86.	89.	92.	97.	94.	37.	9.	5.	3.	2.	1.
R	77.5	155.	158.	158.	158.	146.	95.	22.	9.	5.	3.	2.
T	75.0	223.	224.	219.	203.	176.	140.	64.	17.	9.	4.	3.
I	72.5	259.	259.	250.	231.	204.	169.	117.	45.	15.	7.	5.
C	70.0	287.	287.	279.	261.	239.	199.	151.	90.	35.	12.	9.
A	67.5	317.	318.	309.	301.	279.	230.	176.	128.	68.	25.	14.
L	65.0	363.	361.	354.	341.	312.	255.	201.	151.	98.	46.	26.
	62.5	400.	398.	389.	370.	335.	277.	224.	174.	120.	67.	43.
A	60.0	425.	424.	412.	388.	350.	296.	247.	197.	143.	88.	62.
N	57.5	439.	438.	424.	397.	360.	314.	268.	220.	165.	110.	83.
G	55.0	444.	442.	427.	402.	371.	332.	288.	241.	188.	133.	105.
L	52.5	444.	442.	429.	408.	381.	348.	307.	262.	211.	155.	127.
E	50.0	446.	444.	433.	414.	392.	362.	325.	281.	232.	177.	151.
	47.5	450.	449.	439.	423.	402.	374.	341.	300.	252.	199.	173.
	45.0	455.	454.	445.	430.	411.	385.	355.	316.	271.	220.	195.
	42.5	461.	460.	451.	437.	419.	395.	367.	332.	289.	241.	215.
	40.0	466.	465.	457.	443.	426.	404.	377.	346.	305.	260.	236.
	37.5	470.	469.	462.	448.	432.	411.	386.	358.	321.	279.	256.
	35.0	474.	473.	465.	452.	436.	417.	394.	369.	335.	296.	274.
	32.5	475.	474.	467.	454.	439.	422.	401.	377.	346.	311.	291.
	30.0<<	476.	475.	468.	456.	442.	426.	407.	384.	356.	324.	306.
	25.0	473.	472.	466.	455.	443.	430.	414.	395.	372.	346.	332.
	20.0	467.	466.	461.	451.	441.	430.	416.	401.	382.	363.	352.
	15.0	456.	455.	450.	442.	434.	424.	414.	402.	388.	374.	366.
	10.0	439.	438.	434.	428.	421.	415.	407.	399.	390.	381.	376.
	5.0	417.	416.	413.	408.	404.	400.	397.	393.	389.	384.	381.
	0.0	384.	384.	384.	384.	384.	384.	384.	384.	384.	384.	384.
		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	0.	0.	0.	0.	0.	0.	0.	0.	0.
	145.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	135.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	125.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	115.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	105.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	95.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	92.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
	85.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
V	82.5	0.	0.	0.	0.	0.	0.	0.	0.	0.
E	80.0	1.	0.	0.	0.	0.	0.	0.	0.	0.
R	77.5	1.	1.	0.	0.	0.	0.	0.	0.	0.
T	75.0	2.	1.	0.	0.	0.	0.	0.	0.	0.
I	72.5	3.	2.	1.	0.	0.	0.	0.	0.	0.
C	70.0	6.	3.	1.	1.	1.	0.	0.	0.	0.
A	67.5	9.	4.	2.	1.	1.	1.	0.	0.	0.
L	65.0	14.	7.	3.	2.	1.	1.	1.	1.	1.
	62.5	25.	10.	4.	3.	2.	2.	1.	1.	1.
A	60.0	40.	12.	6.	4.	3.	2.	2.	2.	2.
N	57.5	58.	19.	9.	4.	4.	3.	2.	2.	2.
G	55.0	79.	32.	11.	6.	5.	4.	3.	3.	3.
L	52.5	101.	49.	15.	8.	5.	5.	4.	4.	4.
E	50.0	123.	67.	22.	11.	7.	6.	5.	4.	4.
	47.5	146.	88.	36.	14.	9.	7.	6.	5.	5.
	45.0	168.	110.	54.	18.	13.	9.	7.	7.	6.
	42.5	190.	132.	75.	28.	17.	12.	9.	8.	7.
	40.0	212.	155.	97.	46.	20.	17.	12.	10.	9.
	37.5	233.	177.	121.	68.	29.	20.	17.	14.	13.
	35.0	253.	199.	145.	92.	49.	25.	21.	19.	18.
	32.5	271.	221.	169.	117.	74.	40.	25.	23.	22.
	30.0<<	288.	241.	191.	144.	100.	64.	40.	30.	26.
	25.0	316.	279.	237.	195.	158.	125.	98.	81.	73.
	20.0	340.	311.	278.	244.	215.	190.	167.	152.	141.
	15.0	358.	337.	314.	290.	269.	251.	235.	224.	215.
	10.0	370.	358.	344.	330.	318.	307.	297.	290.	284.
	5.0	378.	372.	366.	361.	356.	354.	349.	346.	342.
	0.0	384.	384.	384.	384.	384.	384.	384.	384.	384.

CONE OF MAXIMUM CANDELA



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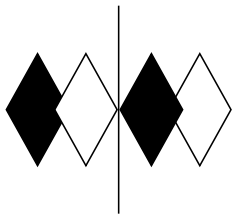
PAGE: 7 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	9
5- 10	27
10- 15	42
15- 20	56
20- 25	65
25- 30	72
30- 35	76
35- 40	79
40- 45	80
45- 50	78
50- 55	76
55- 60	72
60- 65	65
65- 70	52
70- 75	38
75- 80	22
80- 85	6
85- 90	1
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	36
0- 20	134
0- 30	271
0- 40	426
0- 50	584
0- 60	731
0- 70	848
0- 80	908
0- 90	915
0-100	915
0-110	915
0-120	915
0-130	915
0-140	915
0-150	915
0-160	915
0-170	915
0-180	915



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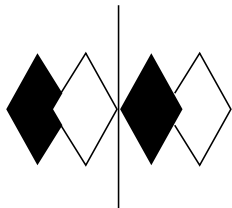
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ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

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REPORT NUMBER: ITL82642
DATE: 09/08/14
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED10N (WALLPACK) - ALED10N (AREA LIGHTER)

ADDRESS: 170 LUDLOW AVE
NORTHVALE, NJ 07647

LUMINAIRE: CAST METAL HOUSING, ONE CIRCUIT BOARD WITH ONE LED, MOLDED PLASTIC REFLECTOR WITH SEMI-DIFFUSE FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.

LAMP: ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED 30-DEGREES FROM VERTICAL BASE-UP POSITION.

DRIVER: RAB LIGHTING RD113-36-C0280

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

INSTRUMENTS:	Associated Power Technologies APT5010 AC Power Source	Calibration Due: N/A
	Yokogawa WT210 Digital Power Meter #6	10/31/14
	Ocean Optics QE65000 Spectroradiometer	07/14/15
	ITL 1.5m Diameter Integrating Sphere S15-2, 4PI Geometry	07/14/15

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.

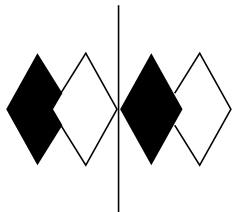
PROCEDURE: The test sample was provided by the customer and had an unknown number of operating hours. The test sample was mounted inside the integrating sphere and allowed to stabilize. After stabilization occurred, measurements were taken. In order to measure mean performance, multiple data sets were 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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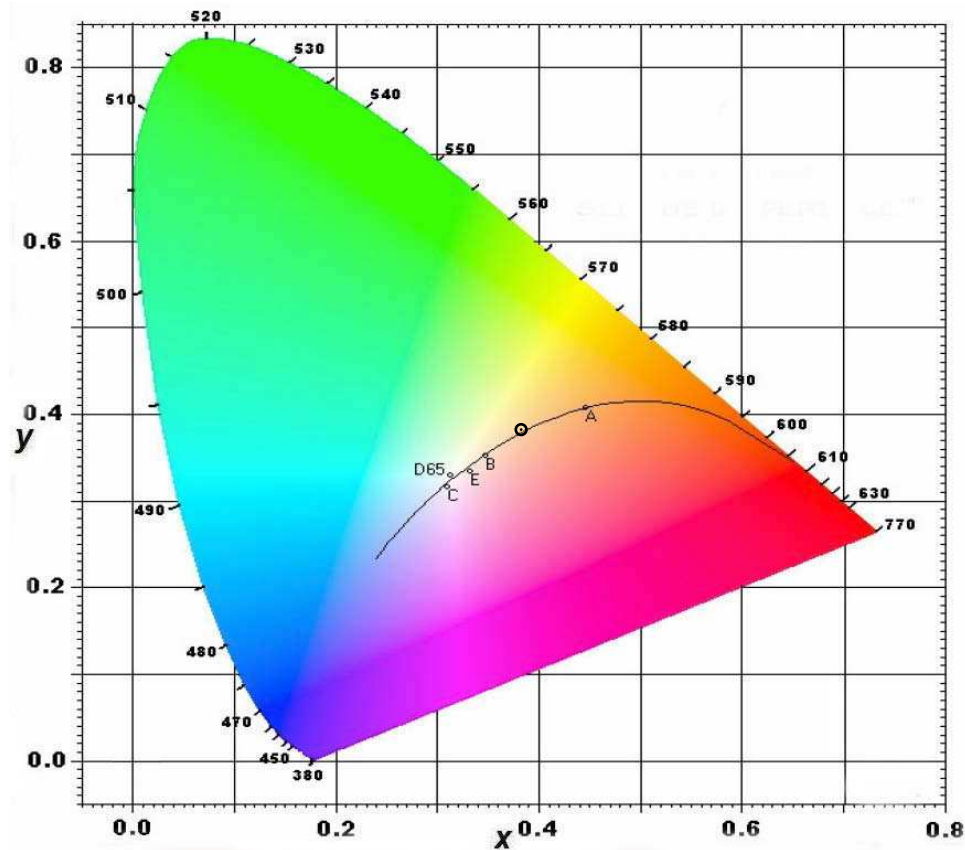
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PHONE: (303)442-1255 • FAX: (970)535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com
REPORT NUMBER: ITL82642
DATE: 09/08/14
PREPARED FOR: RAB LIGHTING, INC.
CATALOG NUMBER: WPLED10N (WALLPACK) - ALED10N (AREA LIGHTER)

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CIE Chromaticity Diagram





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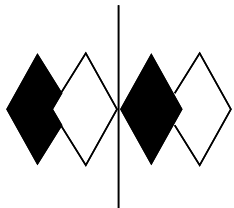
RESULTS:

SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3823
Chromaticity Ordinate y	0.3819
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2243
Chromaticity Ordinate v'	0.5041
Correlated Color Temp CCT (K)	3988
ANSI C78.377-2008 Duv	0.002
Total Radiant Flux (milliWatts)	2790 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.101
Input Power (Watts)	12.0
Input Power Factor (%)	99.0
Input Current THD (%)	10.4
Input Voltage THD (%)	0.1
Off-State Power (Watts)	
	0.0
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.050
Input Power (Watts)	13.1
Input Power Factor (%)	94.6
Input Current THD (%)	15.3
Input Voltage THD (%)	0.1

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	83
R1 Light greyish red	81
R2 Dark greyish yellow	87
R3 Strong yellowish green	91
R4 Moderate yellowish green	84
R5 Light bluish green	81
R6 Light blue	83
R7 Light violet	87
R8 Light reddish purple	67
R9 Strong red	11
R10 Strong yellow	69
R11 Strong green	83
R12 Strong blue	59
R13 Light yellowish pink (skin)	82
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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NVLAP
NVLAP LAB CODE: 200925-0

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.075	515	10.457	650	8.394
385	0.081	520	11.232	655	7.538
390	0.092	525	11.754	660	6.732
395	0.112	530	12.121	665	5.988
400	0.142	535	12.337	670	5.302
405	0.225	540	12.499	675	4.679
410	0.356	545	12.656	680	4.113
415	0.571	550	12.831	685	3.602
420	1.001	555	13.051	690	3.156
425	1.789	560	13.334	695	2.759
430	3.144	565	13.701	700	2.404
435	5.314	570	14.122	705	2.094
440	8.807	575	14.538	710	1.826
445	14.093	580	14.936	715	1.587
450	17.084	585	15.282	720	1.381
455	13.780	590	15.536	725	1.199
460	9.186	595	15.633	730	1.042
465	6.709	600	15.559	735	0.907
470	4.979	605	15.336	740	0.792
475	3.829	610	14.931	745	0.688
480	3.521	615	14.375	750	0.599
485	3.788	620	13.688	755	0.523
490	4.457	625	12.885	760	0.457
495	5.546	630	12.029	765	0.402
500	6.878	635	11.127	770	0.351
505	8.239	640	10.209	775	0.309
510	9.448	645	9.294	780	0.271

