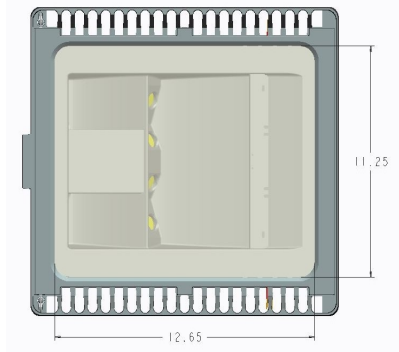


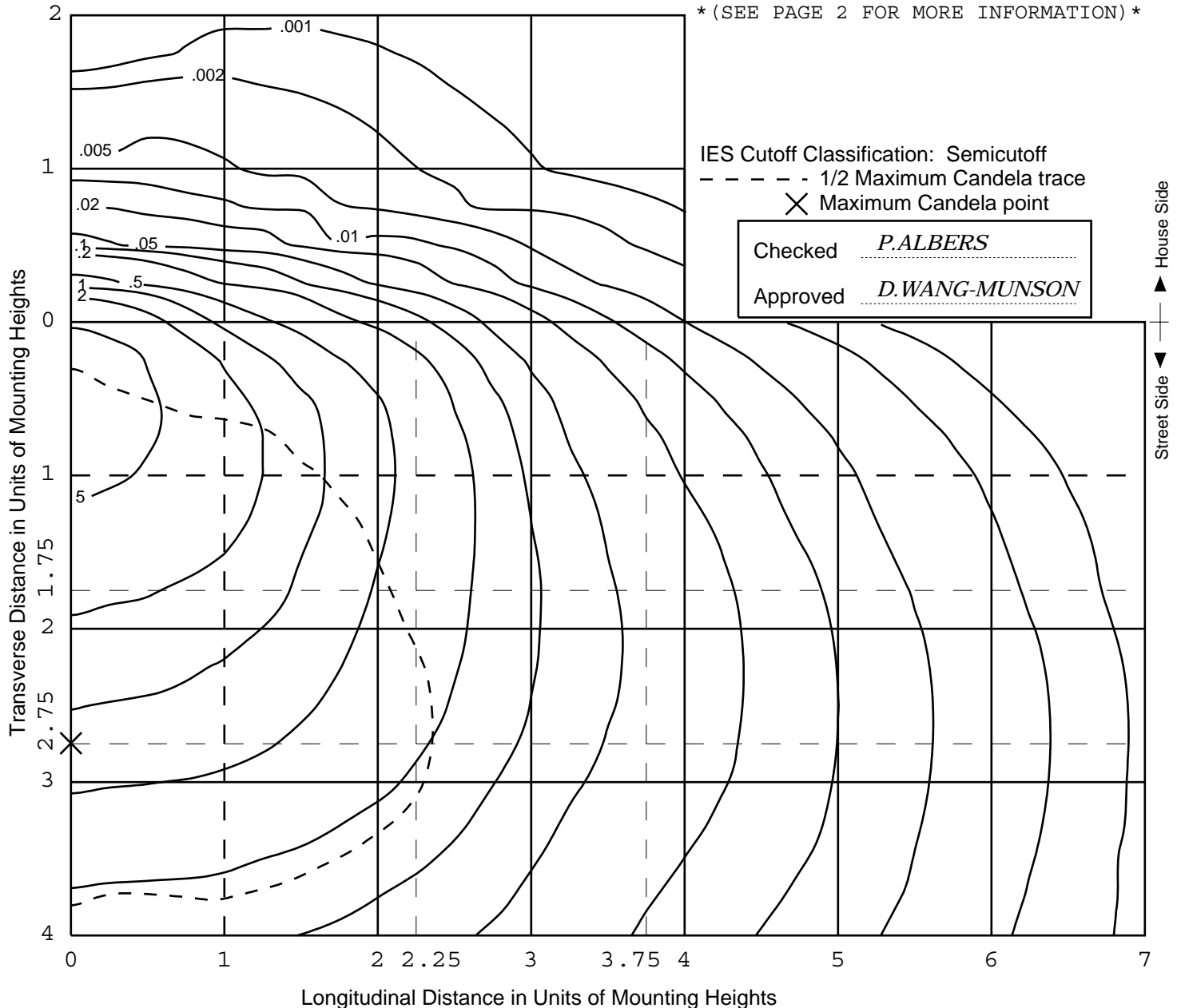
## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 25 foot mounting height.



REPORT NUMBER: RAB04361  
 ISSUE DATE: 05/10/18 PAGE: 1 OF 9  
 DATE SAMPLE TESTED: 05/10/18  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING  
 CATALOG NUMBER: ALED4T125Y/480 -  
 RWLED4T125Y/480 - RWLED4T125SFY/480 -  
 WPLED4T125Y/480 (TYPE IV) (ALSO APPLIES TO 347 RCL)  
 LUMINAIRE: CAST FINNED METAL HOUSING, 6  
 CIRCUIT BOARDS EACH WITH 1 LED,  
 MOLDED 2-PIECE PLASTIC REFLECTOR WITH  
 SPECULAR FINISH AND 1 APERTURE PER  
 LED, CLEAR FLAT GLASS LENS IN CAST  
 BROWN PAINTED METAL LENS FRAME.

\*(SEE PAGE 2 FOR MORE INFORMATION)\*



REPORT NUMBER: RAB04361

PAGE: 2 OF 9

ISSUE DATE: 05/10/18

DATE SAMPLE TESTED: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

ADDITIONAL INFORMATION

LAMPS: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDs TILTED 56-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 18-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 16-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 22-DEGREES FROM STRAIGHT AHEAD.

NOTE: THIS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS = 134.94 W AT 480.0 VAC.

LED DRIVER: 2 x RD-H065-A1810-480

TEST PROCEDURE: IESNA LM-79-08

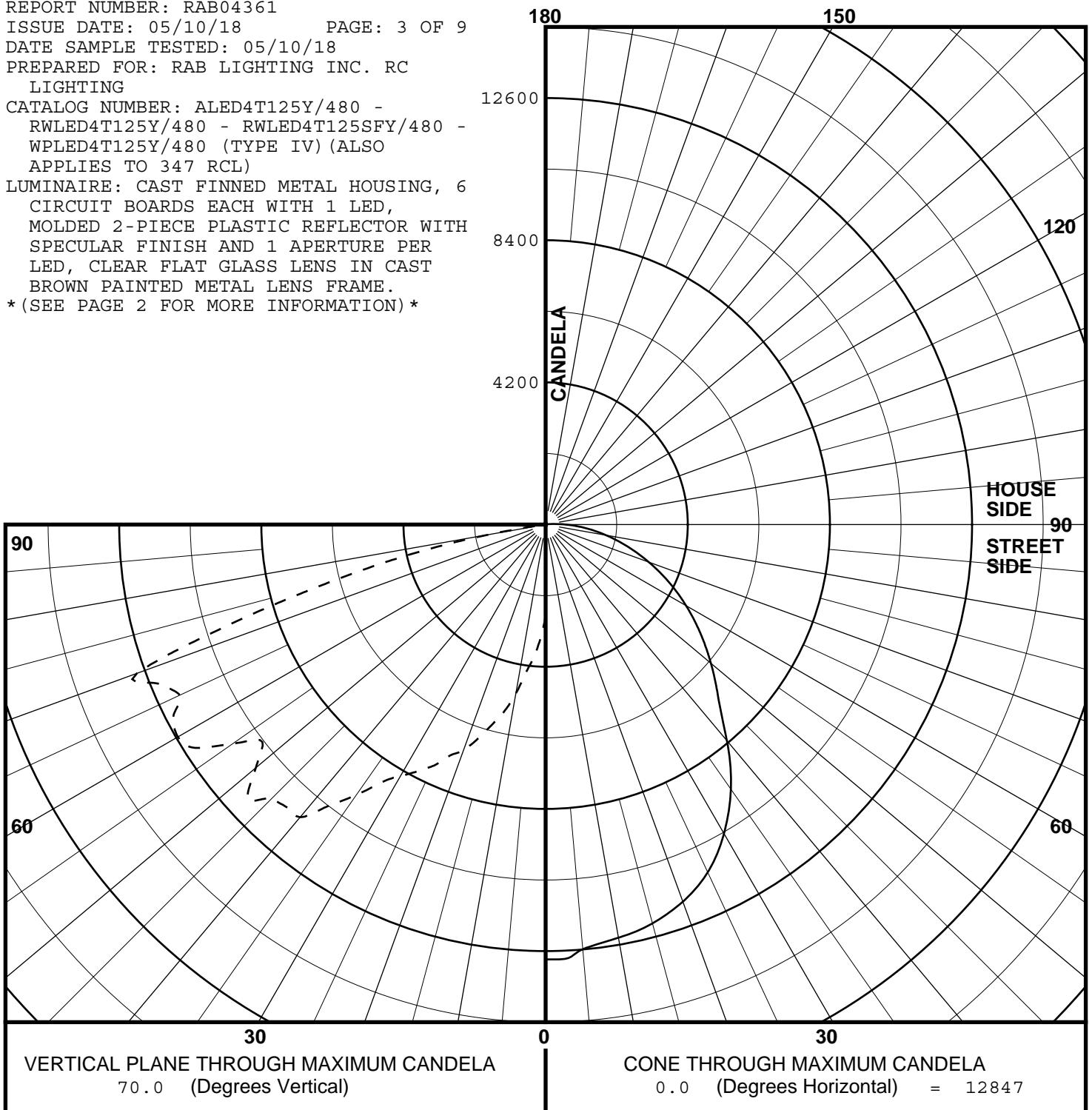
LM-80 DATA AVAILABLE FROM MANUFACTURER FOR SOLID STATE SOURCE

AMBIENT: 24.0

ACCREDITED LABORATORY CODE 201058-0

## MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

REPORT NUMBER: RAB04361  
 ISSUE DATE: 05/10/18 PAGE: 3 OF 9  
 DATE SAMPLE TESTED: 05/10/18  
 PREPARED FOR: RAB LIGHTING INC. RC  
 LIGHTING  
 CATALOG NUMBER: ALED4T125Y/480 -  
 RWLED4T125Y/480 - RWLED4T125SFY/480 -  
 WPLED4T125Y/480 (TYPE IV) (ALSO  
 APPLIES TO 347 RCL)  
 LUMINAIRE: CAST FINNED METAL HOUSING, 6  
 CIRCUIT BOARDS EACH WITH 1 LED,  
 MOLDED 2-PIECE PLASTIC REFLECTOR WITH  
 SPECULAR FINISH AND 1 APERTURE PER  
 LED, CLEAR FLAT GLASS LENS IN CAST  
 BROWN PAINTED METAL LENS FRAME.  
 \*(SEE PAGE 2 FOR MORE INFORMATION) \*



STREET SIDE

REPORT NUMBER: RAB04361

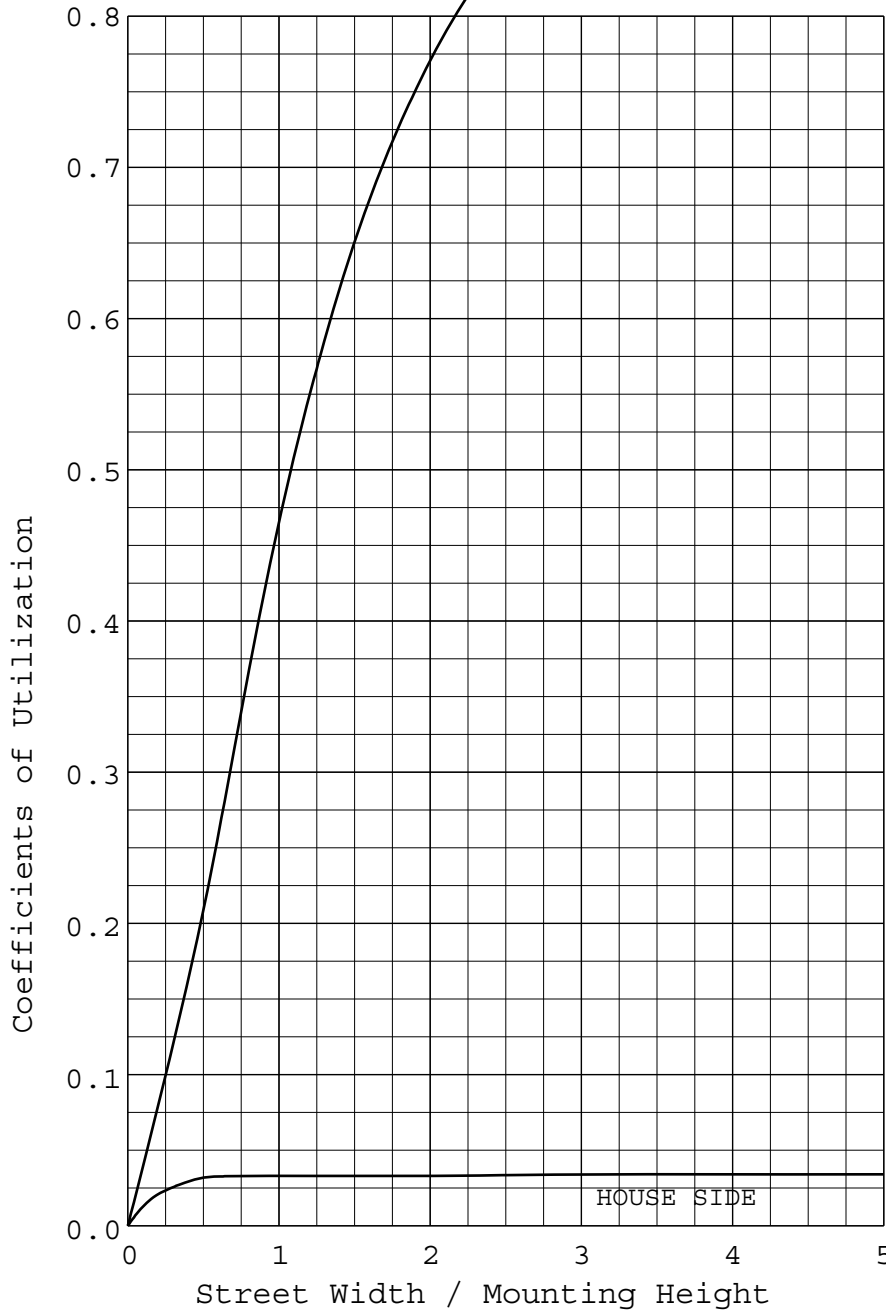
ISSUE DATE: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 4 OF 9

DATE SAMPLE TESTED: 05/10/18

## COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	16610.	96.5
DOWNWARD HOUSE SIDE	595.	3.5
DOWNWARD TOTAL	17205.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	17205.	100.0
TOTAL INPUT WATTS = 134.9		
EFFICACY = 127.5 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.

REPORT NUMBER: RAB04361

ISSUE DATE: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 5 OF 9

DATE SAMPLE TESTED: 05/10/18

BUG Rating:

Zonal Summary

Lumens

% of Fixture

B1 U0 G3

Zone Ratings

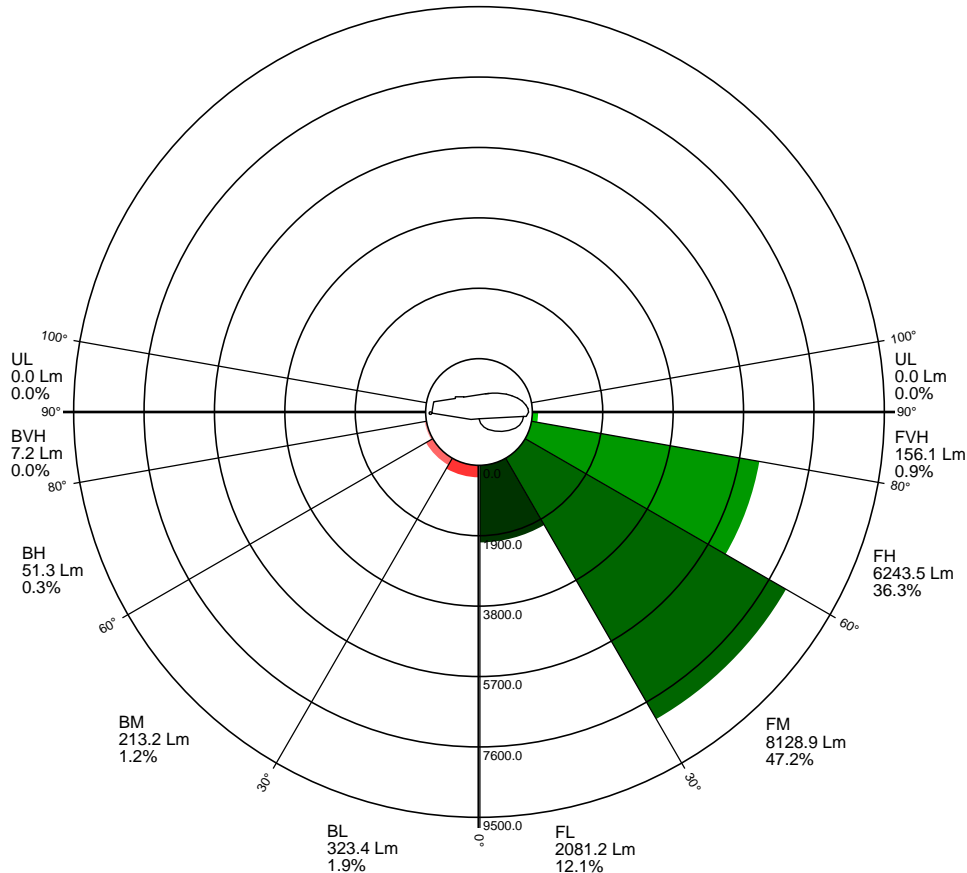
B U G

Forward		16610	96.5			
FL	(0° - 30°)	2081.2	12.1			
FM	(30° - 60°)	8128.9	47.2			
FH	(60° - 80°)	6243.5	36.3			G3
FVH	(80° - 90°)	156.1	0.9			G2
Backward		595	3.5			
BL	(0° - 30°)	323.4	1.9	B1		
BM	(30° - 60°)	213.2	1.2	B0		
BH	(60° - 80°)	51.3	0.3	B0		G0
BVH	(80° - 90°)	7.2	0.0			G0
Upward		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		17205	100.0			

### Zonal Lumen Summary

(Linear scale)

UH  
0.0 Lm  
0.0%

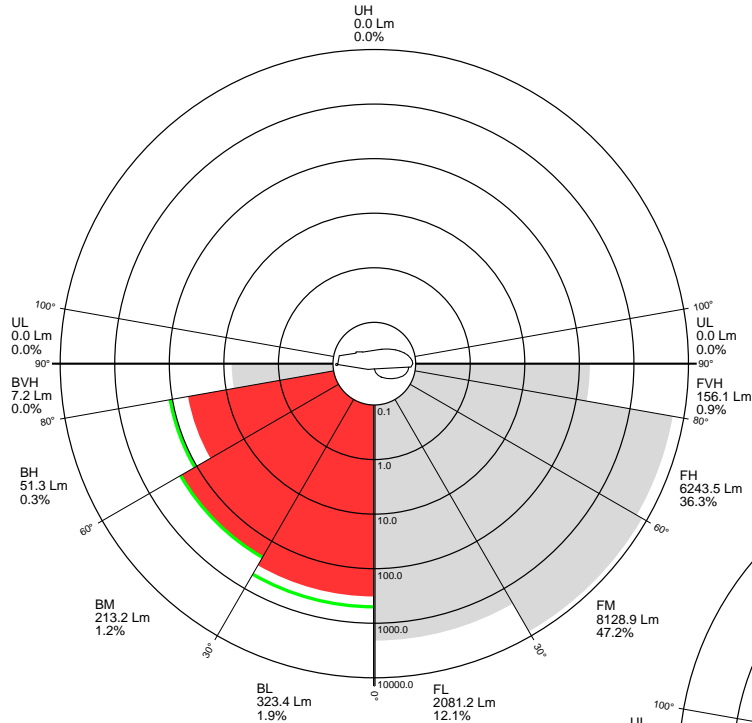


REPORT NUMBER: RAB04361  
ISSUE DATE: 05/10/18  
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 6 OF 9  
DATE SAMPLE TESTED: 05/10/18

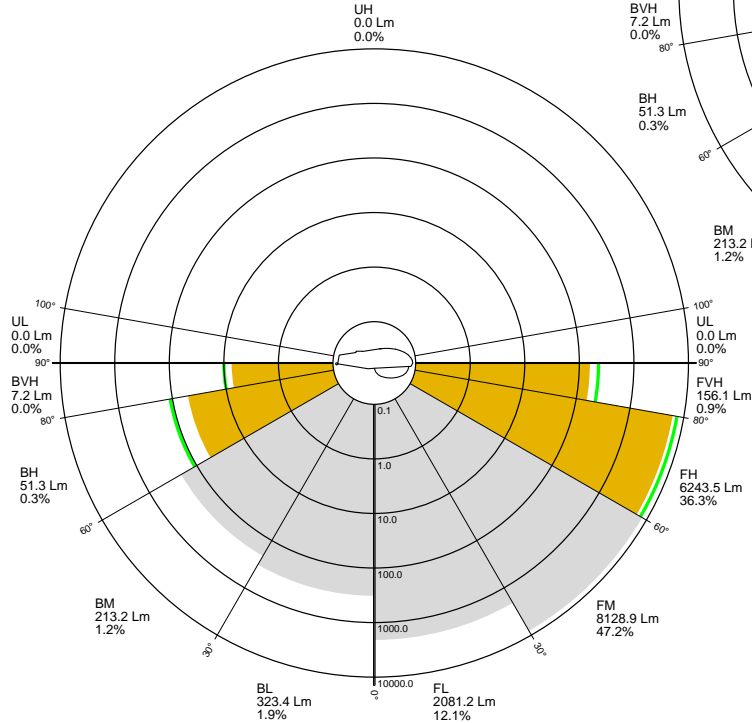
**Backlight Rating Details**

(Logarithmic scale)



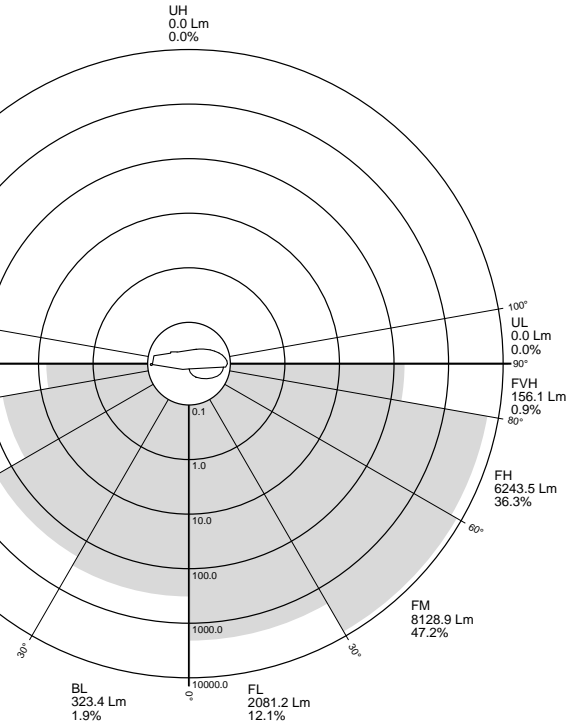
**Glare Rating Details**

(Logarithmic scale)



**Uplight Rating Details**

(Logarithmic scale)



REPORT NUMBER: RAB04361

PAGE: 7 OF 9

ISSUE DATE: 05/10/18

DATE SAMPLE TESTED: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

### 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
	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.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	19.	17.	18.	15.	15.	18.	21.	21.	20. 21.
	85.0	49.	45.	101.	172.	128.	82.	67.	80.	34. 23.
V	82.5	178.	151.	301.	518.	659.	582.	409.	263.	116. 43.
E	80.0	1732.	1559.	1962.	2282.	2066.	1668.	1557.	1025.	489. 185.
R	77.5	4179.	3947.	4551.	4541.	4225.	3157.	2566.	1684.	840. 358.
T	75.0	6682.	6345.	7003.	7099.	6977.	5455.	3484.	2115.	1119. 520.
I	72.5	9728.	9261.	10139.	10354.	8933.	6678.	4529.	2827.	1541. 759.
C	70.0	<<12847.	12589.	12197.	11334.	9546.	7209.	5577.	4014.	2507. 1179.
A	67.5	12316.	11866.	11687.	10989.	10099.	7796.	6184.	4941.	3333. 1745.
L	65.0	11919.	11483.	11810.	11143.	10392.	8133.	6660.	5346.	3967. 2100.
	62.5	12415.	11735.	11939.	11237.	10802.	8961.	6750.	5400.	4260. 2138.
A	60.0	12547.	11586.	11518.	11302.	11204.	9767.	7286.	5328.	4189. 1978.
N	57.5	12279.	11197.	10907.	10732.	9957.	9574.	7839.	5371.	3924. 1894.
G	55.0	11284.	10403.	10118.	9849.	9279.	9522.	7925.	5418.	3704. 1939.
L	52.5	10548.	9945.	9617.	9513.	9012.	8850.	7319.	5294.	3549. 1926.
E	50.0	11180.	10748.	10459.	9946.	8707.	8449.	6884.	5160.	3603. 1993.
	47.5	11952.	11461.	10503.	9744.	9112.	7785.	6417.	4998.	3635. 1993.
	45.0	11450.	11130.	10265.	9958.	8877.	7205.	5957.	4839.	3521. 2083.
	42.5	11325.	11152.	10587.	9805.	8066.	6837.	5750.	4737.	3418. 2216.
	40.0	11288.	11094.	10430.	8951.	7638.	6617.	5739.	4706.	3359. 2277.
	37.5	10442.	10255.	9548.	8343.	7304.	6440.	5646.	4702.	3476. 2334.
	35.0	9752.	9549.	8786.	7883.	6993.	6349.	5542.	4573.	3506. 2478.
	30.0	8580.	8441.	7653.	7193.	6502.	5874.	5229.	4421.	3439. 2663.
	25.0	7868.	7788.	7116.	6619.	6074.	5509.	4923.	4287.	3476. 2801.
	20.0	7087.	7051.	6690.	6194.	5696.	5199.	4653.	3986.	3397. 2767.
	15.0	6116.	6084.	5898.	5556.	5137.	4725.	4238.	3768.	3415. 2817.
	10.0	5074.	5076.	4892.	4703.	4386.	4100.	3843.	3591.	3246. 2803.
	5.0	3910.	3915.	3872.	3797.	3700.	3595.	3416.	3216.	3007. 2759.
	0.0	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705. 2705.

||  
PLANE OF MAXIMUM CANDELA

CONE OF MAXIMUM CANDELA

REPORT NUMBER: RAB04361

PAGE: 8 OF 9

ISSUE DATE: 05/10/18

DATE SAMPLE TESTED: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

### CANDELA TABULATION

HOUSE SIDE		LATERAL ANGLE										
		90.0	95.0	105.0	115.0	125.0	135.0	145.0	155.0	165.0	175.0	180.0
V E R T I C A L  A N G L E	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.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	21.	21.	20.	19.	18.	17.	15.	12.	10.	9.	9.
	85.0	22.	21.	20.	19.	17.	16.	14.	11.	8.	6.	6.
	82.5	31.	26.	21.	19.	17.	15.	13.	10.	6.	4.	4.
	80.0	74.	30.	23.	18.	16.	14.	12.	9.	5.	2.	2.
	77.5	144.	49.	25.	19.	16.	14.	11.	8.	5.	2.	1.
	75.0	269.	85.	25.	20.	16.	13.	11.	8.	4.	1.	0.
	72.5	406.	126.	26.	21.	15.	13.	10.	7.	4.	1.	0.
	70.0<<	644.	215.	30.	22.	18.	13.	10.	7.	4.	1.	0.
	67.5	967.	285.	40.	22.	20.	14.	10.	7.	4.	1.	0.
	65.0	1172.	366.	54.	24.	20.	16.	10.	7.	4.	1.	0.
	62.5	1182.	435.	62.	24.	19.	15.	14.	7.	4.	1.	0.
	60.0	1209.	527.	58.	47.	18.	16.	14.	11.	4.	1.	0.
	57.5	1410.	597.	87.	50.	19.	16.	14.	13.	9.	6.	7.
	55.0	1457.	696.	125.	45.	22.	18.	15.	13.	11.	10.	9.
	52.5	1410.	782.	176.	43.	25.	18.	19.	15.	11.	11.	10.
	50.0	1394.	772.	228.	48.	37.	20.	16.	22.	16.	12.	11.
	47.5	1380.	790.	263.	70.	47.	21.	16.	12.	10.	10.	10.
	45.0	1436.	877.	345.	77.	52.	27.	19.	11.	10.	9.	10.
	42.5	1583.	994.	420.	80.	53.	43.	20.	15.	10.	9.	10.
	40.0	1661.	1097.	426.	119.	54.	50.	33.	21.	13.	11.	12.
	37.5	1724.	1179.	480.	192.	50.	47.	56.	41.	23.	17.	19.
35.0	1835.	1272.	545.	304.	57.	50.	67.	65.	46.	38.	40.	
30.0	2036.	1494.	778.	397.	174.	61.	53.	50.	55.	60.	69.	
25.0	2241.	1736.	1071.	582.	412.	211.	70.	54.	51.	54.	56.	
20.0	2298.	1867.	1278.	843.	543.	395.	283.	183.	115.	99.	91.	
15.0	2450.	2082.	1647.	1162.	844.	611.	508.	442.	391.	373.	366.	
10.0	2560.	2324.	1921.	1685.	1346.	1138.	982.	870.	807.	794.	775.	
5.0	2640.	2521.	2322.	2152.	1998.	1906.	1826.	1772.	1697.	1634.	1654.	
0.0	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705.	2705.	

CONE OF MAXIMUM CANDELA



REPORT NUMBER: RAB04361

ISSUE DATE: 05/10/18

PREPARED FOR: RAB LIGHTING INC. RC LIGHTING

PAGE: 9 OF 9

DATE SAMPLE TESTED: 05/10/18

### 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	65
5- 10	193
10- 15	324
15- 20	461
20- 25	606
25- 30	756
30- 35	920
35- 40	1118
40- 45	1320
45- 50	1497
50- 55	1627
55- 60	1861
60- 65	1989
65- 70	1944
70- 75	1579
75- 80	783
80- 85	152
85- 90	11
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	258
0- 20	1043
0- 30	2405
0- 40	4442
0- 50	7259
0- 60	10747
0- 70	14680
0- 80	17041
0- 90	17205
0-100	17205
0-110	17205
0-120	17205
0-130	17205
0-140	17205
0-150	17205
0-160	17205
0-170	17205
0-180	17205

REPORT NUMBER: RAB04362  
DATE: 5/10/2018  
PREPARED FOR: RAB LIGHTING INC. RC LIGHTING  
CATALOG NUMBER: ALED4T125Y/480 - RWLED4T125Y/480 - RWLED4T125SFY/480 -  
WPLED4T125Y/480 (TYPE IV) (ALSO APPLIES TO 347 RCL)

Page 1 of 4

ADDRESS: 170 LUDLOW AVE, NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME.

LAMP: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 2 LEDs TILTED 56-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 18-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 16-DEGREES FROM STRAIGHT AHEAD, 2 LEDs TILTED 57-DEGREES FROM VERTICAL BASE-UP POSITION AND CANTED 22-DEGREES FROM STRAIGHT AHEAD.

DRIVER: 2 X RD-H065-A1810-480

OBJECT OF TEST: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT THE RATED INPUT VOLTAGES (480.0 AND 347.0 VAC, 60Hz) TO THE TEST SAMPLE.

INSTRUMENTS:	GWINSTEK PROGRAMMABLE AC POWER SOURCE APS-7100	N/A
	CHROMA PROGRAMMABLE DIGITAL POWER METER MODEL 66202	3/08/19
	OCEAN OPTICS QE65PRO Spectroradiometer	04/23/19
	RAB 2.0 meter Diameter Integrating Sphere, 4PI Geometry	04/23/19

OBJECT OF TEST: Measure the Absolute Flux in lumens\*, 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. Measure electrical data including Total Harmonic Distortion (THD) at maximum nominal rated input voltage. Report Off-State Power.

PROCEDURE: The test sample was mounted inside the integrating sphere, energized, 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 60 HZ input in a 25 +/-1 degree Celsius free air ambient and in accordance with IESNA LM-79-08. Electrical data was also recorded at maximum nominal rated input voltage (347.0 VAC). 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)

Checked	<u>X.CAO</u>
Approved	<u>D.WANG-MUNSON</u> Lighting Engineer

REPORT NUMBER: RAB04362  
 DATE: 5/10/2018  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING  
 CATALOG NUMBER: ALED4T125Y/480 - RWLED4T125Y/480 - RWLED4T125SFY/480 -  
 WPLED4T125Y/480 (TYPE IV) (ALSO APPLIES TO 347 RCL)

Page 2 of 4

### RESULTS:

<b>PHOTOMETRIC</b>	
Total Integrated Flux (lumens)	17205 *
<b>SPECTRORADIOMETRIC</b>	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.4376
Chromaticity Ordinate y	0.4084
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2491
Chromaticity Ordinate v'	0.5232
Correlated Color Temp CCT (K)	3024
ANSI C78.377-2008 Duv	0.002
Total Radiant Flux (milliWatts)	47817 *
<b>ELECTRICAL</b>	
Input Voltage (Volts AC)	480.0
Input Current (Amps AC)	0.296
Input Power (Watts)	134.9
Input Power Factor (%)	94.8
Input Current THD (%)	13.7
Input Voltage THD (%)	0.2
<b>EFFICACY (Lumens/Watt)</b>	
	127.5
<b>ELECTRICAL AT MAX NONIMAL INPUT</b>	
Input Voltage (Volts AC)	347.0
Input Current (Amps AC)	0.386
Input Power (Watts)	132.7
Input Power Factor (%)	99.0
Input Current THD (%)	5.9
Input Voltage THD (%)	0.2
<b>Off-State Power (Watts)</b>	
	0.0

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	71
R1 Light greyish red	66
R2 Dark greyish yellow	81
R3 Strong yellowish green	95
R4 Moderate yellowish green	68
R5 Light bluish green	67
R6 Light blue	77
R7 Light violet	75
R8 Light reddish purple	38
R9 Strong red	-46
R10 Strong yellow	60
R11 Strong green	64
R12 Strong blue	58
R13 Light yellowish pink (skin)	68
R14 Moderate olive green (leaf)	97

### \*NOTE:

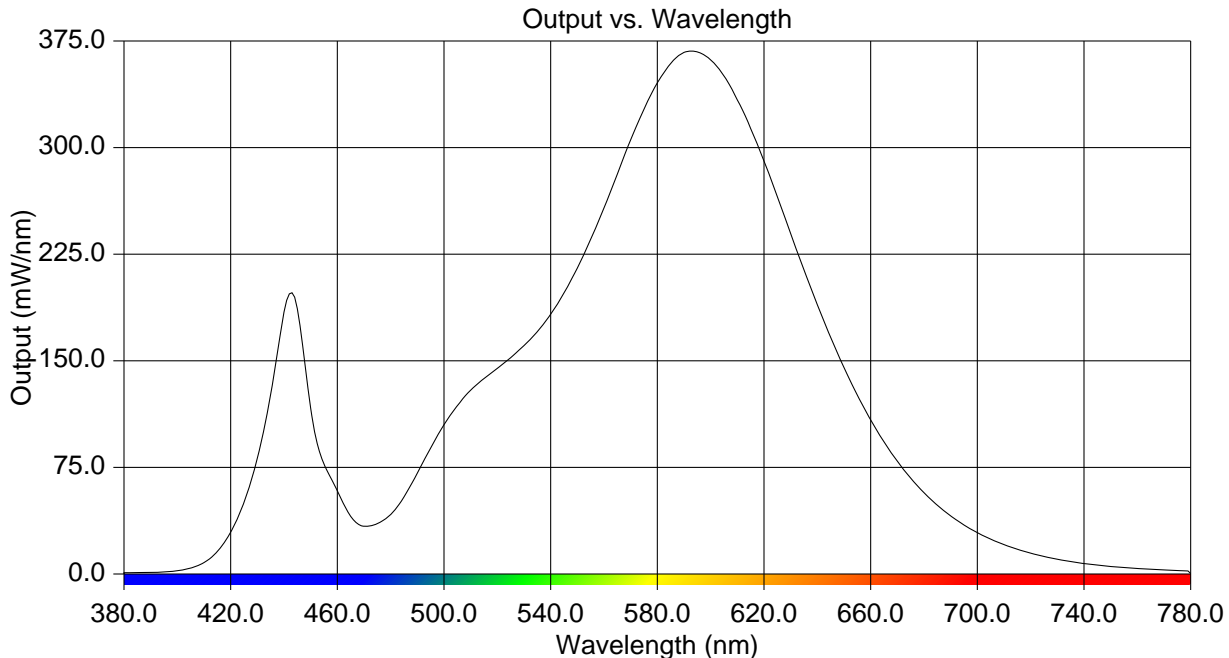
Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even 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.

REPORT NUMBER: RAB04362  
 DATE: 5/10/2018  
 PREPARED FOR: RAB LIGHTING INC. RC LIGHTING  
 CATALOG NUMBER: ALED4T125Y/480 - RWLED4T125Y/480 - RWLED4T125SFY/480 -  
 WPLED4T125Y/480 (TYPE IV) (ALSO APPLIES TO 347 RCL)

Page 3 of 4

### RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.883	515	137.207	650	145.083
385	0.946	520	144.499	655	125.733
390	1.116	525	152.075	660	108.254
395	1.451	530	160.603	665	92.890
400	2.276	535	170.362	670	79.283
405	4.080	540	182.759	675	67.309
410	8.037	545	197.374	680	57.140
415	15.651	550	215.090	685	48.343
420	29.104	555	235.208	690	40.870
425	50.964	560	257.508	695	34.440
430	81.632	565	281.193	700	29.056
435	125.612	570	305.278	705	24.518
440	184.203	575	326.873	710	20.621
445	186.523	580	345.346	715	17.351
450	116.612	585	359.028	720	14.616
455	77.280	590	366.762	725	12.309
460	58.461	595	367.166	730	10.391
465	40.541	600	361.627	735	8.749
470	33.548	605	350.165	740	7.379
475	35.445	610	333.301	745	6.255
480	41.748	615	313.184	750	5.337
485	54.199	620	290.371	755	4.536
490	70.910	625	265.938	760	3.832
495	88.776	630	239.081	765	3.292
500	105.046	635	213.800	770	2.799
505	118.184	640	189.221	775	2.406
510	129.199	645	166.348	780	0.358



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Page 4 of 4

## CIE Chromaticity Diagram

