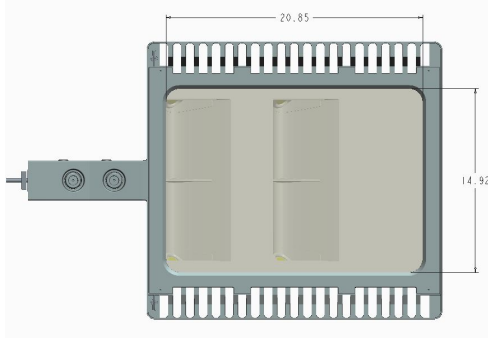


## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

Values based on 35 foot mounting height.

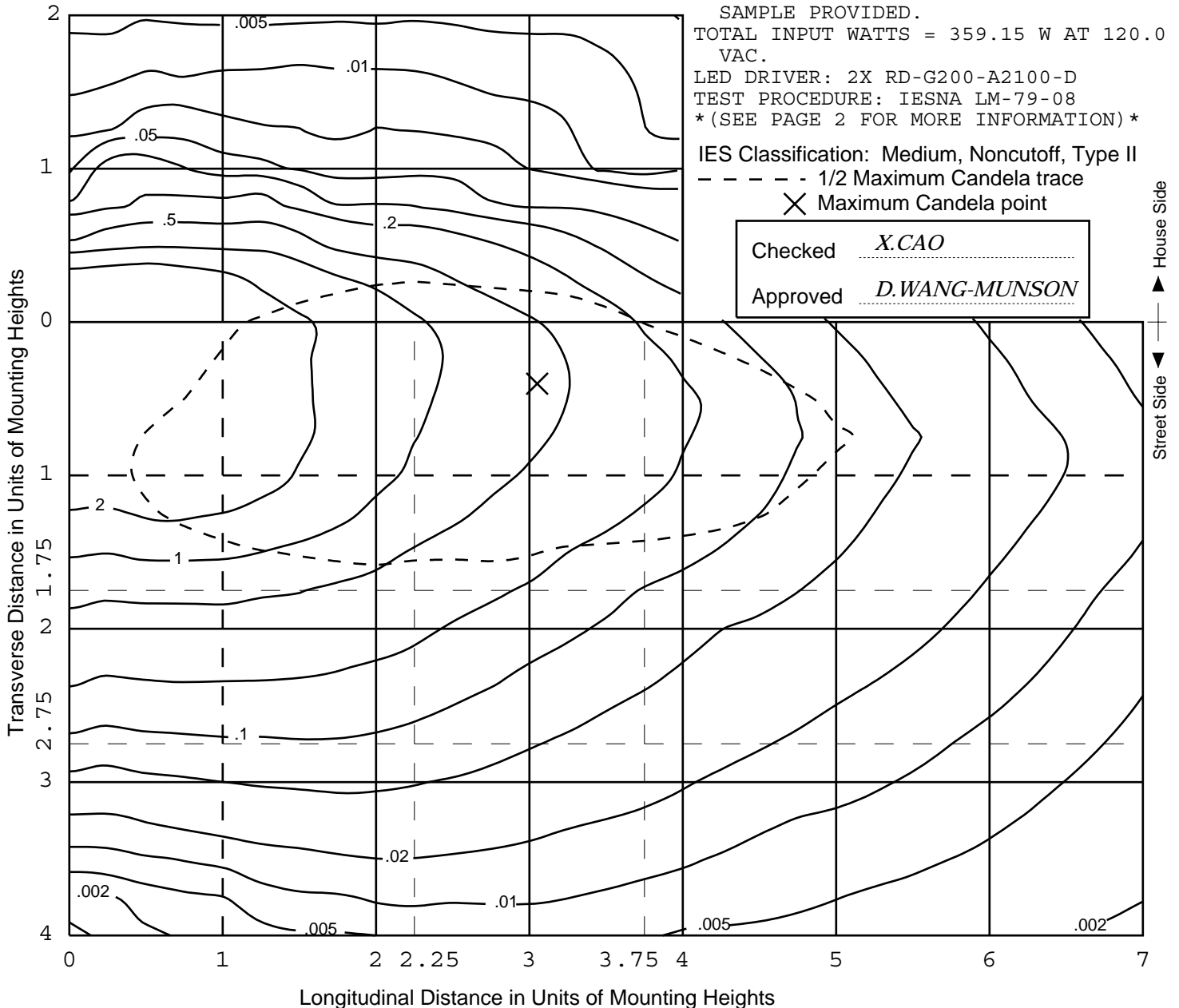


REPORT NUMBER: RAB01579  
 ISSUE DATE: 01/20/16 PAGE: 1 OF 9  
 DATE SAMPLE TESTED: 01/20/16  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: ALED2T360N/D10 -  
 ALED2T360SFN/D10 - WPLED2T360N/D10 -  
 WPLED2T360NFX/D10 (TYPE II)  
 LUMINAIRE: CAST FINNED METAL HOUSING, 4  
 CHIP ON BOARD LIGHT EMITTING DIODES,  
 MOLDED PLASTIC REFLECTOR WITH  
 SPECULAR FINISH, CLEAR GLASS LENS IN  
 CAST BRONZE PAINTED METAL FRAME.  
 LAMPS: FOUR WHITE LIGHT EMITTING DIODES  
 (LEDs)

NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
 SAMPLE PROVIDED.  
 TOTAL INPUT WATTS = 359.15 W AT 120.0  
 VAC.  
 LED DRIVER: 2X RD-G200-A2100-D  
 TEST PROCEDURE: IESNA LM-79-08  
 \*(SEE PAGE 2 FOR MORE INFORMATION)\*

IES Classification: Medium, Noncutoff, Type II

--- 1/2 Maximum Candela trace  
 X Maximum Candela point



REPORT NUMBER: RAB01579  
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PREPARED FOR: RAB LIGHTING INC.

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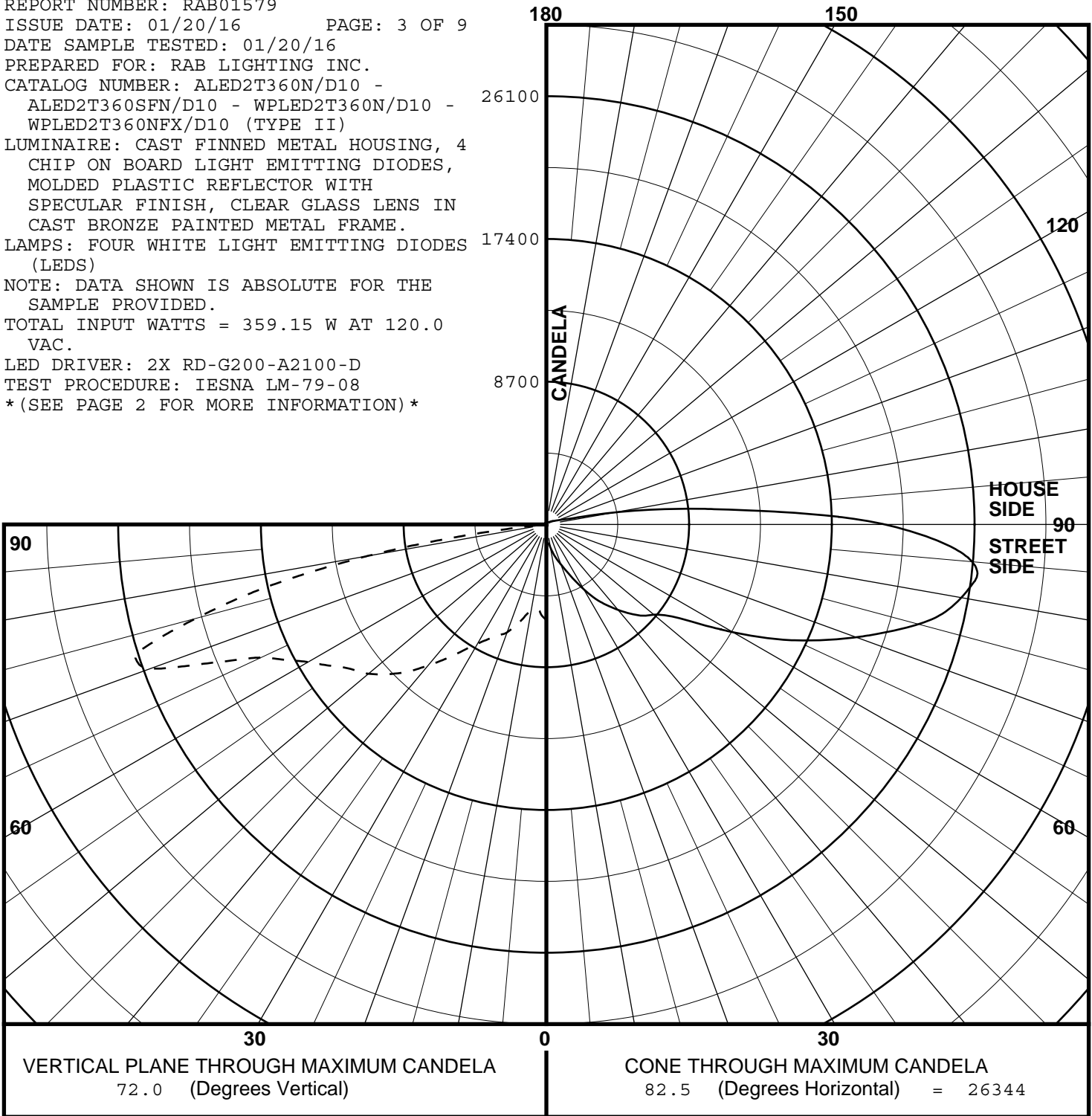
ADDITIONAL INFORMATION

TEST DISTANCE : 28.25 FEET  
ACCREDITED LABORATORY CODE 201058-0

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.

MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA

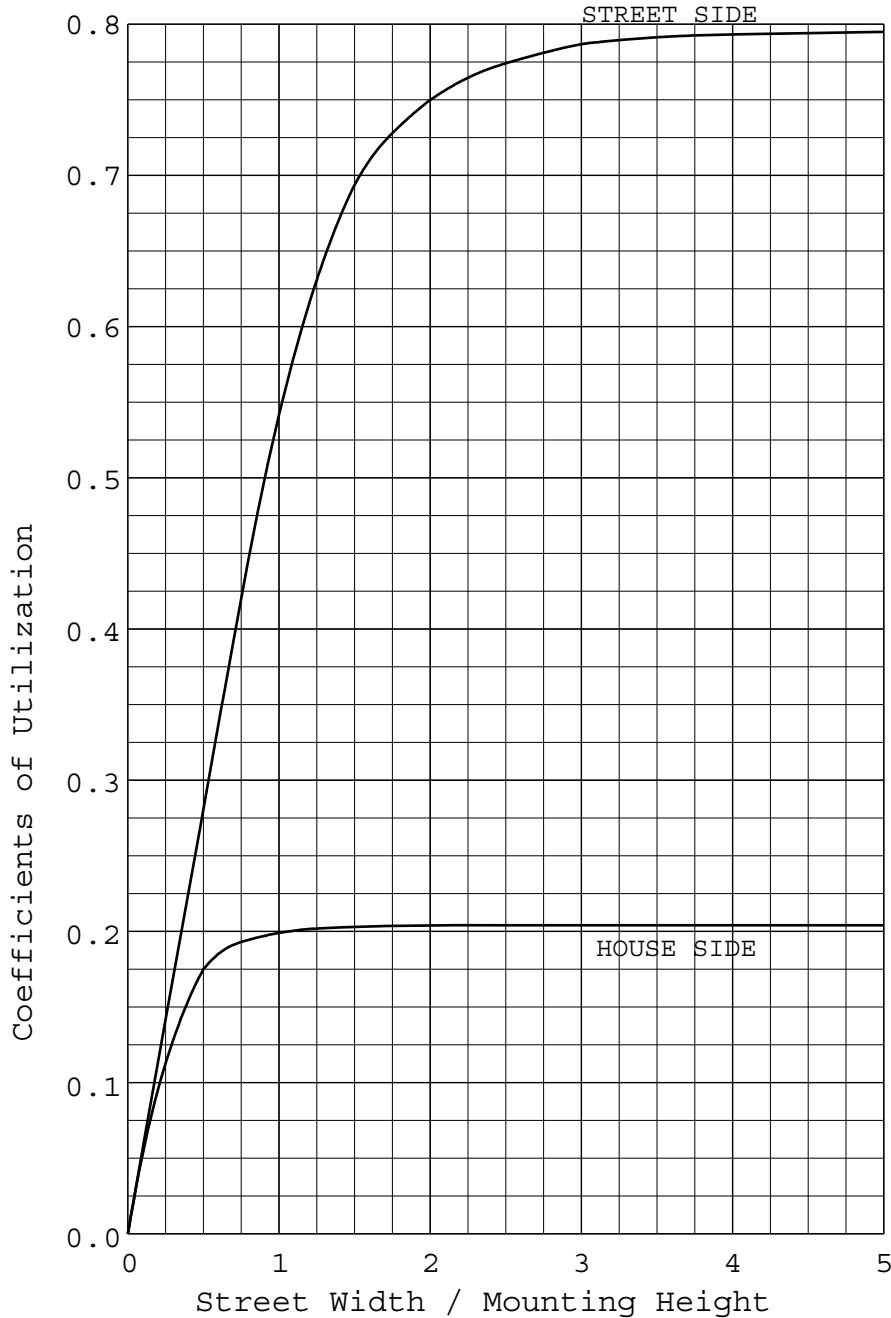
REPORT NUMBER: RAB01579  
 ISSUE DATE: 01/20/16 PAGE: 3 OF 9  
 DATE SAMPLE TESTED: 01/20/16  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: ALED2T360N/D10 -  
 ALED2T360SFN/D10 - WPLED2T360N/D10 -  
 WPLED2T360NFX/D10 (TYPE II)  
 LUMINAIRE: CAST FINNED METAL HOUSING, 4  
 CHIP ON BOARD LIGHT EMITTING DIODES,  
 MOLDED PLASTIC REFLECTOR WITH  
 SPECULAR FINISH, CLEAR GLASS LENS IN  
 CAST BRONZE PAINTED METAL FRAME.  
 LAMPS: FOUR WHITE LIGHT EMITTING DIODES (LEDS)  
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
 SAMPLE PROVIDED.  
 TOTAL INPUT WATTS = 359.15 W AT 120.0  
 VAC.  
 LED DRIVER: 2X RD-G200-A2100-D  
 TEST PROCEDURE: IESNA LM-79-08  
 \*(SEE PAGE 2 FOR MORE INFORMATION)\*



REPORT NUMBER: RAB01579  
ISSUE DATE: 01/20/16  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 4 OF 9  
DATE SAMPLE TESTED: 01/20/16

## COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	LUMENS	PERCENT OF FIXTURE
DOWNWARD STREET SIDE	28482.	79.5
DOWNWARD HOUSE SIDE	7336.	20.5
DOWNWARD TOTAL	35818.	100.0
UPWARD STREET SIDE	0.	0.0
UPWARD HOUSE SIDE	0.	0.0
UPWARD TOTAL	0.	0.0
TOTAL FLUX	35818.	100.0
TOTAL INPUT WATTS = 359.1		
EFFICACY = 99.7 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.

REPORT NUMBER: RAB01579  
 ISSUE DATE: 01/20/16  
 PREPARED FOR: RAB LIGHTING INC.

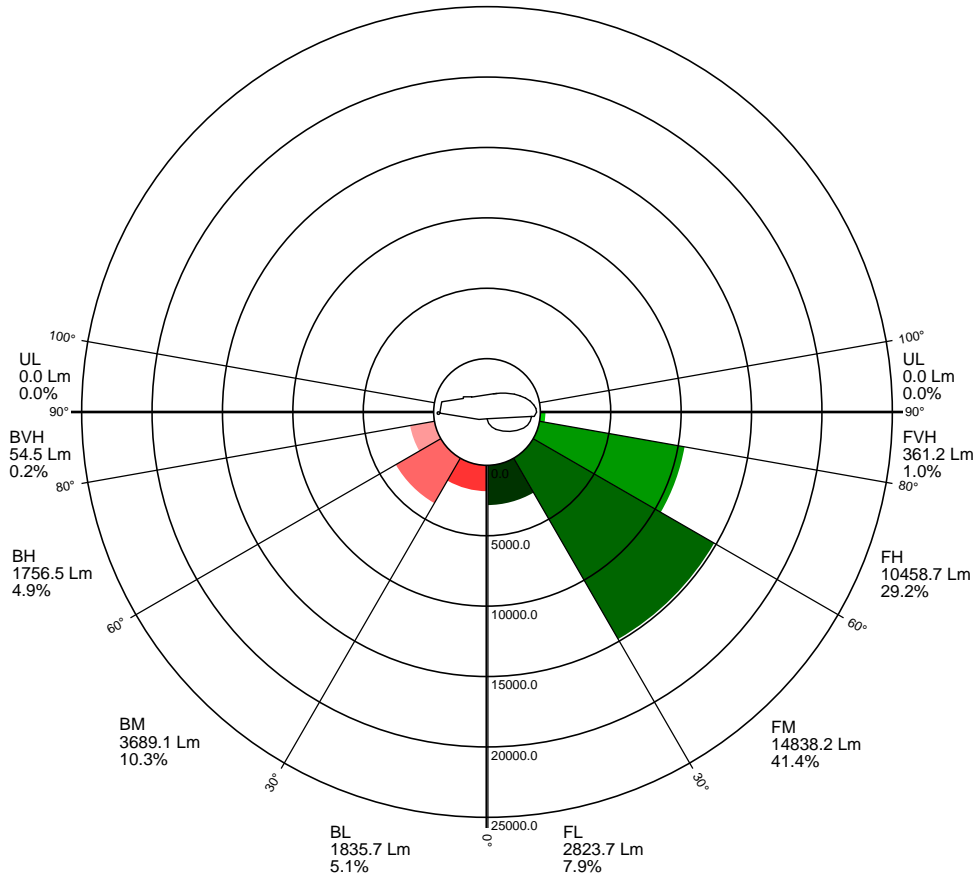
PAGE: 5 OF 9  
 DATE SAMPLE TESTED: 01/20/16

BUG Rating:				B3	U0	G4
Zonal Summary		Lumens	% of Fixture	Zone Ratings		
				B	U	G
Forward		28482	79.5			
FL	(0° – 30°)	2823.7	7.9			
FM	(30° – 60°)	14838.2	41.4			
FH	(60° – 80°)	10458.7	29.2			G4
FVH	(80° – 90°)	361.2	1.0			G3
Backward		7336	20.5			
BL	(0° – 30°)	1835.7	5.1	B3		
BM	(30° – 60°)	3689.1	10.3	B3		
BH	(60° – 80°)	1756.5	4.9	B3		G3
BVH	(80° – 90°)	54.5	0.2			G1
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		35818	100.0			

### Zonal Lumen Summary

(Linear scale)

UH  
0.0 Lm  
0.0%

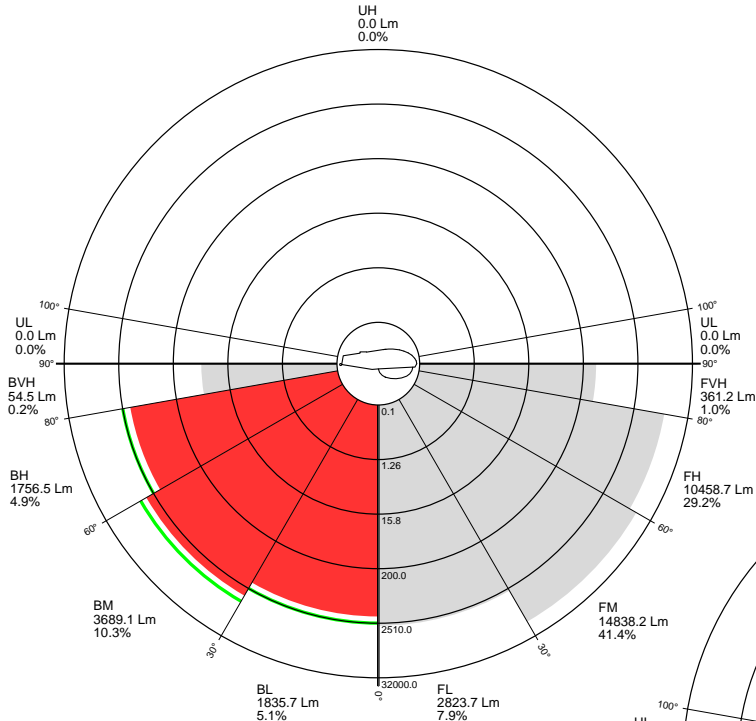


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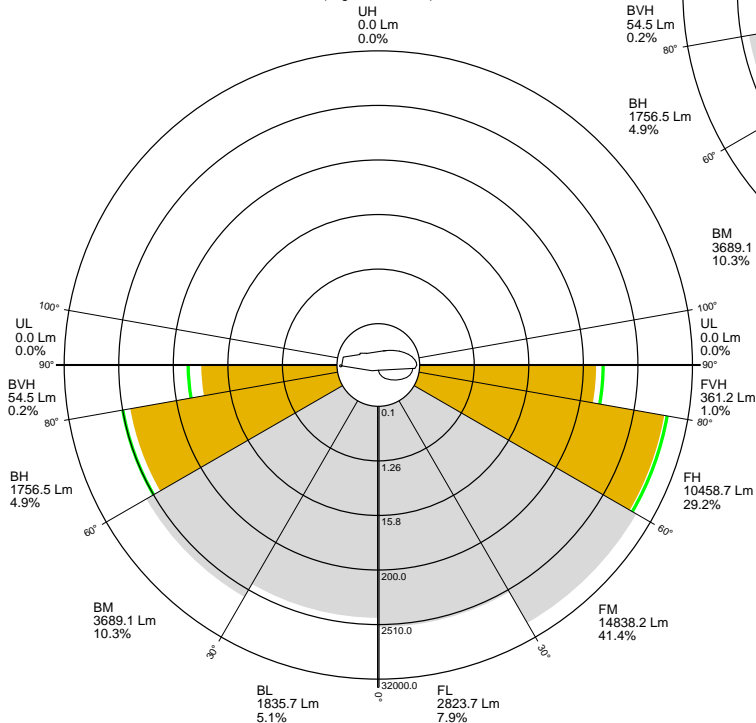
## Backlight Rating Details

(Logarithmic scale)



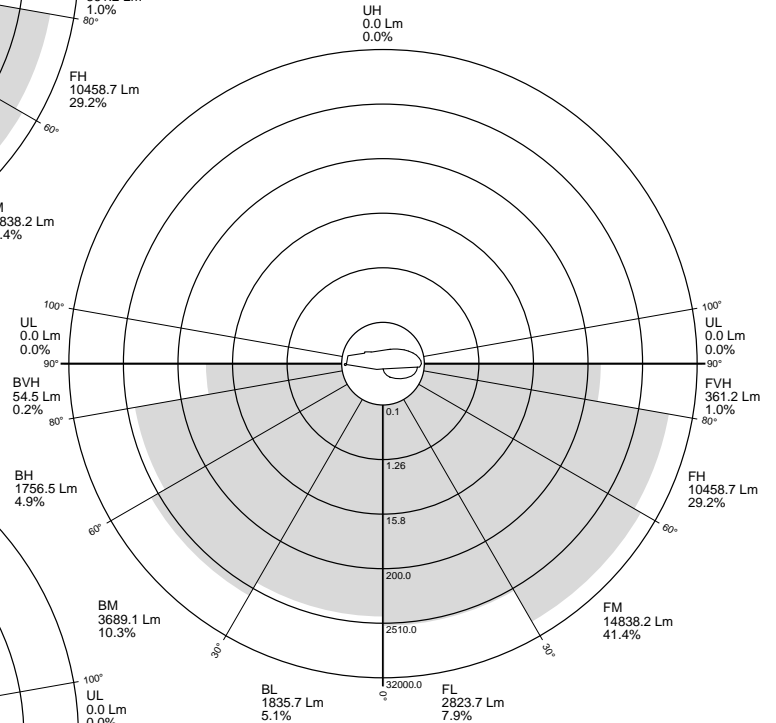
## Glare Rating Details

(Logarithmic scale)



## Uplight Rating Details

(Logarithmic scale)



REPORT NUMBER: RAB01579  
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 PREPARED FOR: RAB LIGHTING INC.

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 DATE SAMPLE TESTED: 01/20/16

### CANDELA TABULATION

	STREET SIDE	LATERAL ANGLE										
		0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	82.5	85.0
	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.
	90.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	87.5	33.	30.	32.	37.	41.	38.	39.	37.	82.	143.	133.
	85.0	41.	34.	40.	44.	54.	57.	68.	327.	399.	650.	443.
	82.5	42.	37.	45.	52.	67.	139.	833.	1716.	2606.	4431.	3148.
V	80.0	45.	39.	47.	63.	314.	1046.	2319.	4684.	8134.	11097.	8584.
E	77.5	51.	45.	69.	377.	1402.	2903.	5052.	7402.	14851.	17263.	14171.
R	75.0	90.	141.	476.	1516.	3384.	5392.	7358.	11236.	20075.	22107.	19305.
T	72.5	938.	975.	1721.	3108.	5442.	7553.	9577.	16033.	23269.	26231.	25726.
I	72.0<<	1202.	1149.	2008.	3412.	5763.	7817.	10009.	16703.	23487.	26344.	26057.
C	70.0	2483.	2216.	3206.	4627.	6637.	8943.	12570.	19190.	23669.	25685.	25845.
A	67.5	4082.	3623.	4444.	5558.	7439.	10563.	16279.	20814.	21693.	22019.	22008.
L	65.0	4876.	4270.	4967.	6219.	8556.	13274.	18996.	21248.	19706.	19197.	20221.
	62.5	5327.	4750.	5597.	7185.	10703.	16178.	20315.	20872.	18442.	17882.	18863.
A	60.0	6183.	5574.	6697.	8820.	13309.	17944.	20651.	20125.	17571.	16767.	17141.
N	57.5	7030.	6402.	8050.	11014.	15230.	18947.	20360.	18897.	16681.	15952.	15871.
G	55.0	8285.	7558.	9160.	12804.	16297.	19146.	19428.	17531.	15901.	15170.	15004.
L	52.5	9148.	8521.	9807.	13904.	16787.	18850.	18043.	16329.	15094.	14620.	14493.
E	50.0	9745.	9276.	10106.	14233.	16606.	17743.	16739.	15187.	14505.	14152.	13942.
	47.5	10485.	9972.	10221.	14285.	16110.	16162.	15497.	14237.	14040.	13516.	13269.
	45.0	10746.	10417.	10897.	13772.	14960.	14623.	14247.	13597.	13536.	12830.	12544.
	42.5	10537.	10265.	11107.	13748.	13666.	13430.	13291.	13170.	12890.	12063.	11792.
	40.0	10137.	9927.	10499.	12779.	12771.	12740.	12668.	12700.	12068.	11216.	11015.
	37.5	9510.	9405.	9593.	11137.	11839.	11994.	12017.	11869.	11170.	10432.	10221.
	35.0	8755.	8653.	8716.	9855.	10729.	11046.	11121.	10957.	10278.	9660.	9524.
	30.0	7255.	7169.	7305.	7773.	8849.	9181.	9324.	9157.	8660.	8377.	8323.
	25.0	6484.	6383.	6383.	6353.	7006.	7549.	7826.	7736.	7545.	7560.	7589.
	20.0	6401.	6265.	5927.	5843.	5932.	6482.	6567.	6790.	6942.	7001.	7025.
	15.0	6562.	6438.	5934.	5861.	5815.	5733.	5817.	5954.	6041.	6099.	6110.
	10.0	6561.	6485.	6051.	5799.	5740.	5663.	5615.	5576.	5480.	5390.	5386.
	5.0	6249.	6254.	6107.	5944.	5736.	5560.	5446.	5359.	5337.	5261.	5278.
	0.0	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.
											PLANE OF MAXIMUM CANDELA	
											CONE OF MAXIMUM CANDELA	

REPORT NUMBER: RAB01579  
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 PREPARED FOR: RAB LIGHTING INC.

PAGE: 8 OF 9  
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### 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
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	71.	38.	34.	26.	24.	24.	29.	30.	27.	25.	24.
85.0	283.	89.	113.	27.	23.	21.	26.	28.	25.	23.	22.
82.5	1786.	492.	142.	39.	23.	19.	23.	25.	23.	21.	21.
V 80.0	5909.	2320.	185.	50.	31.	18.	19.	22.	20.	19.	19.
E 77.5	9299.	4459.	326.	229.	83.	27.	18.	20.	19.	18.	18.
R 75.0	13082.	6489.	452.	549.	179.	61.	23.	21.	19.	18.	18.
T 72.5	19914.	10125.	1057.	510.	265.	102.	34.	30.	26.	19.	19.
I 72.0	<20634.	10601.	1202.	511.	282.	111.	38.	33.	28.	20.	20.
C 70.0	21431.	12469.	2177.	581.	336.	146.	57.	41.	36.	23.	23.
A 67.5	19137.	14431.	2886.	667.	337.	198.	88.	58.	48.	29.	29.
L 65.0	20093.	15873.	3024.	623.	263.	225.	120.	74.	67.	38.	47.
62.5	19902.	15063.	3948.	595.	322.	207.	145.	85.	78.	46.	61.
A 60.0	16999.	14746.	5640.	1292.	479.	220.	150.	99.	91.	60.	61.
N 57.5	15901.	14200.	6863.	2624.	642.	306.	150.	108.	98.	65.	65.
G 55.0	14844.	13826.	7573.	3622.	840.	435.	352.	111.	91.	68.	71.
L 52.5	13971.	12789.	7793.	3704.	1224.	447.	564.	272.	95.	67.	77.
E 50.0	13539.	12542.	8300.	3610.	1569.	497.	478.	526.	208.	84.	83.
47.5	12906.	12370.	8805.	3840.	1809.	825.	327.	626.	505.	288.	139.
45.0	12111.	11613.	8892.	4276.	2068.	1102.	424.	424.	446.	323.	147.
42.5	11353.	10835.	8589.	4722.	2283.	1294.	664.	571.	277.	255.	115.
40.0	10618.	10277.	8433.	5084.	2572.	1564.	876.	577.	315.	170.	106.
37.5	9912.	9707.	8310.	5461.	2930.	1794.	1141.	681.	366.	211.	206.
35.0	9300.	9214.	8203.	5778.	3354.	2030.	1464.	900.	464.	413.	434.
30.0	8407.	8321.	7696.	6165.	4309.	2827.	1929.	1216.	759.	820.	840.
25.0	7653.	7573.	7310.	6426.	5099.	3780.	2582.	1627.	997.	985.	1032.
20.0	7045.	7015.	6725.	6228.	5406.	4453.	3346.	2397.	1784.	1724.	1724.
15.0	6151.	6103.	5885.	5614.	5224.	4685.	4037.	3556.	3312.	3529.	3513.
10.0	5351.	5304.	5204.	5015.	4895.	4811.	4646.	4610.	4819.	5162.	5189.
5.0	5238.	5178.	5152.	5050.	5033.	5109.	5178.	5331.	5470.	5571.	5581.
0.0	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.	5831.

CONE OF MAXIMUM CANDELA

REPORT NUMBER: RAB01579  
ISSUE DATE: 01/20/16  
PREPARED FOR: RAB LIGHTING INC.

PAGE: 9 OF 9  
DATE SAMPLE TESTED: 01/20/16

## 5-DEGREE ZONAL LUMEN SUMMARY

0- 5	134
5- 10	386
10- 15	632
15- 20	881
20- 25	1149
25- 30	1478
30- 35	1899
35- 40	2409
40- 45	2938
45- 50	3433
50- 55	3834
55- 60	4014
60- 65	3907
65- 70	3700
70- 75	3024
75- 80	1584
80- 85	390
85- 90	26
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	520
0- 20	2032
0- 30	4659
0- 40	8968
0- 50	15339
0- 60	23187
0- 70	30794
0- 80	35402
0- 90	35818
0-100	35818
0-110	35818
0-120	35818
0-130	35818
0-140	35818
0-150	35818
0-160	35818
0-170	35818
0-180	35818

REPORT NUMBER: RAB01582  
 DATE: 1/19/2016  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: ALED2T360N/D10 - ALED2T360SFN/D10 - WPLED2T360N/D10 - WPLED2T360NFX/D10 (TYPE II)  
 ADDRESS: 170 LUDLOW AVE, NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING, 4 CHIP ON BOARD LIGHT EMITTING DIODES, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR GLASS LENS IN CAST BRONZE PAINTED METAL FRAME.

LAMP: FOUR WHITE LIGHT EMITTING DIODES (LEDS)

DRIVER: 2X RD-G200-A2100-D

OBJECT OF TEST: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT THE RATED INPUT VOLTAGES (120.0 AND 277.0 VAC, 60Hz) TO THE TEST SAMPLE.

INSTRUMENTS: GWINSTEK PROGRAMMABLE AC POWER SOURCE APS-7100  
 CHROMA PROGRAMMABLE DIGITAL POWER METER MODEL 66202  
 OCEAN OPTICS QE65PRO Spectroradiometer  
 RAB 2.0 meter Diameter Integrating Sphere, 4PI Geometry

Calibration Due:  
 N/A  
 3/9/16  
 1/5/17  
 1/5/17

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 (277.0 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: RAB01582  
 DATE: 1/19/2016  
 PREPARED FOR: RAB LIGHTING INC.  
 CATALOG NUMBER: ALED2T360N/D10 - ALED2T360SFN/D10 - WPLED2T360N/D10 - WPLED2T360NFX/D10 (TYPE II)

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### RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	35818 *
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3775
Chromaticity Ordinate y	0.3843
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2202
Chromaticity Ordinate v'	0.5044
Correlated Color Temp CCT (K)	4132
ANSI C78.377-2008 Duv	0.004
Total Radiant Flux (milliWatts)	101756 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	3.00
Input Power (Watts)	359.1
Input Power Factor (%)	99.8
Input Current THD (%)	5.8
Input Voltage THD (%)	0.6
EFFICACY (Lumens/Watt)	
	99.7
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	1.32
Input Power (Watts)	350.3
Input Power Factor (%)	95.8
Input Current THD (%)	8.6
Input Voltage THD (%)	0.2
Off-State Power (Watts)	
	0.0

COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	70
R1 Light greyish red	67
R2 Dark greyish yellow	76
R3 Strong yellowish green	84
R4 Moderate yellowish green	70
R5 Light bluish green	67
R6 Light blue	67
R7 Light violet	81
R8 Light reddish purple	51
R9 Strong red	-37
R10 Strong yellow	44
R11 Strong green	66
R12 Strong blue	40
R13 Light yellowish pink (skin)	68
R14 Moderate olive green (leaf)	91

### \*NOTE:

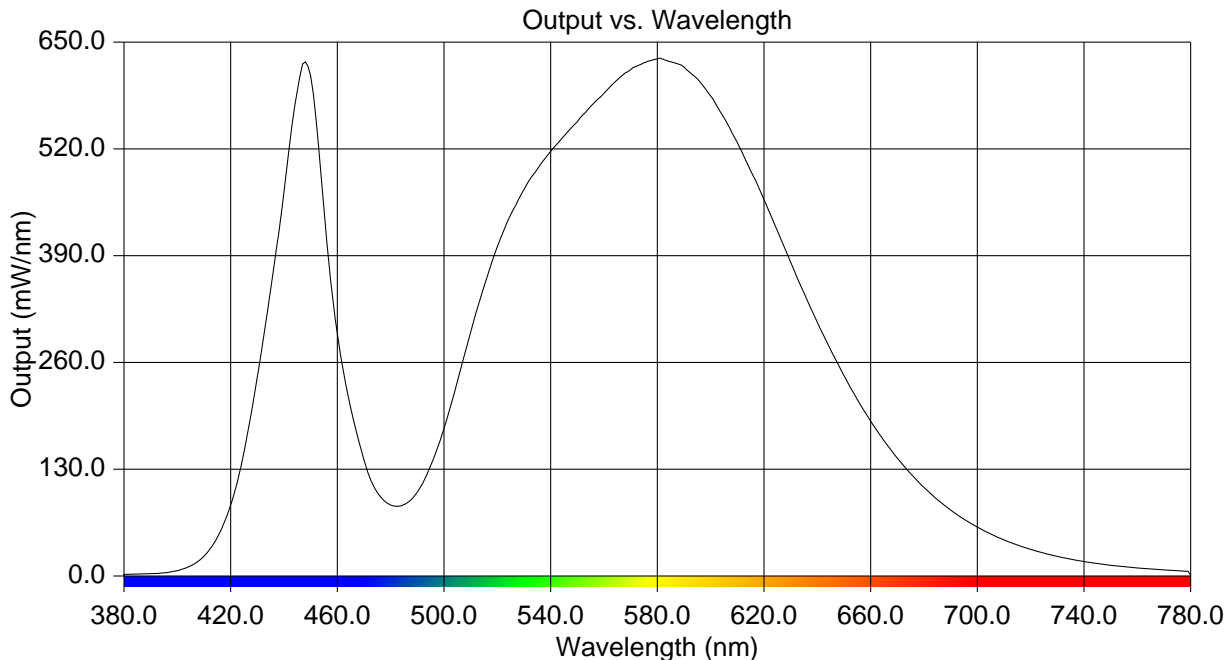
Proper calibration of integrating spheres for measuring total flux output of non-directional samples will produce reliable, repeatable results within the calibration tolerances of the equipment used. However, measurement of test samples with significant self absorption and/or directional output, even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

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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	1.866	515	352.330	650	243.886
385	2.221	520	401.428	655	214.912
390	2.689	525	440.421	660	188.928
395	3.908	530	471.037	665	164.911
400	6.533	535	495.805	670	143.581
405	12.260	540	517.665	675	124.600
410	24.306	545	536.336	680	107.861
415	46.935	550	553.613	685	93.163
420	86.147	555	572.396	690	80.263
425	150.772	560	588.325	695	69.256
430	242.764	565	604.846	700	59.509
435	349.375	570	617.163	705	51.140
440	468.335	575	625.667	710	43.919
445	591.518	580	630.305	715	37.720
450	609.310	585	626.906	720	32.450
455	447.602	590	620.302	725	27.755
460	293.835	595	605.809	730	23.782
465	206.015	600	585.016	735	20.475
470	141.323	605	558.515	740	17.627
475	101.617	610	528.314	745	15.214
480	86.537	615	493.831	750	13.150
485	86.749	620	458.321	755	11.342
490	102.310	625	421.479	760	9.785
495	133.929	630	381.985	765	8.485
500	180.399	635	345.049	770	7.348
505	236.754	640	309.196	775	6.439
510	297.241	645	275.928	780	0.962



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## CIE Chromaticity Diagram

