

REPORT NUMBER: RAB02068

PAGE: 1 OF 7

ISSUE DATE: 06/13/16

DATE SAMPLE TESTED: 06/13/16

PREPARED FOR: RAB LIGHTING INC.

CATALOG NUMBER: FXLED78SF - FXLED78T (SF=SLIPFITTER MOUNT & T=TRUNNION MOUNT)

LUMINAIRE: CAST FINNED METAL HOUSING, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER 3 LEDS, 6 CIRCUIT BOARDS EACH WITH 1 LED, CLEAR GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME WITH VISOR.

LAMPS: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), 6 LEDS AIMED AT THE HORIZON, 4 LEDS CANTED 21-DEGREES FROM STRAIGHT AHEAD. HORIZON AND CANTED 30-DEGREES FROM STRAIGHT AHEAD.

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

TOTAL INPUT WATTS =75.658 AT 120.0 VAC.

(SEE PAGE 2 FOR MORE INFORMATION)

FLOODLIGHT CHARACTERISTICS

IES TYPE

6H X 6V

MAXIMUM CANDLEPOWER

5939. AT 29.0 H, 3.0 V

HORIZONTAL BEAM ANGLE (50%)

90.9 deg

VERTICAL BEAM ANGLE (50%)

74.2 deg

AXIAL CANDLEPOWER

HORIZONTAL FIELD ANGLE (10%)

119.1 deg

DEG

HORIZ.

DEG

VERT.

VERTICAL FIELD ANGLE (10%)

107.3 deg

BEAM LUMENS (% FIXTURE)

7319. (76.6 %)

FIELD LUMENS (% FIXTURE)

9126. (95.5 %)

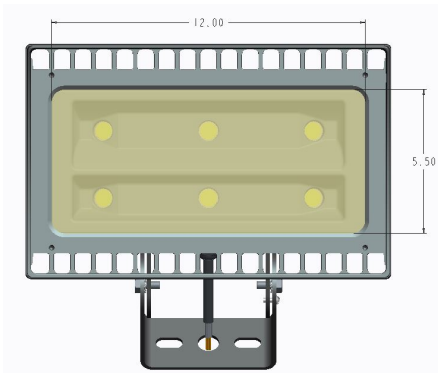
TOTAL LUMENS (% FIXTURE)

9559. (100.0 %)

TOTAL INPUT WATTS = 75.7

EFFICACY = 126.3 Lm/W

90.0	0.	90.0	0.
85.0	15.	85.0	0.
75.0	34.	75.0	8.
65.0	179.	65.0	62.
55.0	941.	55.0	352.
47.5	2355.	47.5	1240.
42.5	3854.	42.5	2029.
37.5	5108.	37.5	2888.
33.0	5761.	33.0	3526.
29.0	5897.	29.0	3866.
25.5	5774.	25.5	4400.
22.5	5557.	22.5	4855.
19.5	5501.	19.5	5101.
17.0	5455.	17.0	5216.
15.0	5458.	15.0	5300.
13.0	5453.	13.0	5332.
11.0	5445.	11.0	5312.
9.0	5388.	9.0	5294.
7.0	5362.	7.0	5237.
5.0	5360.	5.0	5244.
3.0	5359.	3.0	5328.
1.0	5358.	1.0	5351.
0.0	5355.	0.0	5355.
-1.0	5358.	-1.0	5291.
-3.0	5359.	-3.0	5247.
-5.0	5360.	-5.0	5165.
-7.0	5362.	-7.0	5077.
-9.0	5388.	-9.0	4949.
-11.0	5445.	-11.0	4731.
-13.0	5453.	-13.0	4609.
-15.0	5458.	-15.0	4562.
-17.0	5455.	-17.0	4532.
-19.5	5501.	-19.5	4396.
-22.5	5557.	-22.5	4240.
-25.5	5774.	-25.5	4086.
-29.0	5897.	-29.0	3871.
-33.0	5761.	-33.0	3510.
-37.5	5108.	-37.5	2905.
-42.5	3854.	-42.5	2062.
-47.5	2355.	-47.5	1377.
-55.0	941.	-55.0	511.
-65.0	179.	-65.0	55.
-75.0	34.	-75.0	60.
-85.0	15.	-85.0	3.
-90.0	0.	-90.0	0.



Checked X.CAO

Approved D.WANG-MUNSON

REPORT NUMBER: RAB02068
ISSUE DATE: 06/13/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 2 OF 7
DATE SAMPLE TESTED: 06/13/16

ADDITIONAL INFORMATION

LED DRIVER: RD-085-A2000
TEST PROCEDURE: IESNA LM-79-08
ACCREDITED LABORATORY CODE 200925-0

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.

REPORT NUMBER: RAB02068
 ISSUE DATE: 06/13/16
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 5 OF 7
 DATE SAMPLE TESTED: 06/13/16

LUMEN TABULATION
 AVERAGE OF RIGHT AND LEFT SIDES

	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL
90	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
80	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	9.
60	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.	3.	3.	2.	3.	2.	2.	2.	1.	1.	0.	0.	0.	39.
50	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	5.	5.	4.	5.	3.	3.	2.	1.	1.	0.	0.	0.	62.
45	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	7.	9.	7.	7.	3.	2.	2.	0.	0.	0.	107.
40	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.	11.	11.	10.	13.	11.	11.	7.	3.	2.	0.	0.	0.	157.
35	9.	9.	9.	9.	8.	8.	8.	8.	8.	8.	11.	11.	11.	13.	12.	12.	7.	4.	2.	0.	0.	0.	160.
31	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	12.	12.	15.	14.	14.	9.	5.	3.	0.	0.	0.	181.
27	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	12.	12.	15.	14.	14.	9.	5.	3.	0.	0.	0.	181.
24	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.	11.	11.	10.	13.	12.	12.	8.	4.	2.	0.	0.	0.	155.
21	9.	9.	9.	9.	9.	9.	9.	8.	8.	8.	12.	12.	12.	15.	13.	14.	9.	5.	2.	0.	0.	0.	172.
18	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	13.	13.	16.	15.	15.	10.	5.	2.	0.	0.	0.	186.
16	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	11.	7.	4.	2.	0.	0.	0.	130.
14	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	11.	8.	4.	2.	0.	0.	0.	134.
12	6.	7.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	4.	2.	0.	0.	0.	136.
10	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	4.	2.	0.	0.	0.	136.
8	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	5.	2.	0.	0.	0.	137.
6	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	10.	12.	12.	12.	8.	5.	2.	0.	0.	0.	137.
4	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	10.	13.	12.	12.	9.	5.	2.	0.	0.	0.	138.
2	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	10.	9.	10.	13.	12.	12.	9.	5.	2.	0.	0.	0.	139.
0	7.	7.	7.	6.	6.	7.	6.	6.	6.	6.	10.	9.	10.	13.	12.	12.	9.	5.	3.	0.	0.	0.	140.
-2	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	12.	12.	9.	5.	3.	0.	0.	0.	139.
-4	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	12.	12.	9.	5.	2.	0.	0.	0.	136.
-6	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	5.	2.	0.	0.	0.	132.
-8	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	8.	9.	11.	11.	11.	8.	5.	2.	0.	0.	0.	129.
-10	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	8.	11.	10.	11.	8.	5.	2.	0.	0.	0.	125.
-12	6.	6.	6.	6.	6.	6.	6.	6.	6.	5.	8.	8.	8.	11.	10.	10.	8.	4.	2.	0.	0.	0.	120.
-14	6.	6.	6.	6.	6.	6.	6.	5.	5.	8.	8.	8.	10.	10.	10.	7.	4.	2.	0.	0.	0.	0.	118.
-16	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	8.	8.	8.	10.	9.	10.	7.	4.	2.	0.	0.	0.	116.
-18	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.	8.	8.	8.	10.	9.	10.	7.	4.	2.	0.	0.	0.	113.
-21	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.	11.	11.	11.	14.	13.	14.	10.	5.	2.	0.	0.	0.	163.
-24	8.	8.	8.	8.	8.	8.	8.	7.	7.	7.	11.	11.	10.	13.	12.	13.	9.	5.	2.	0.	0.	0.	155.
-27	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	10.	10.	10.	13.	12.	12.	8.	4.	2.	0.	0.	0.	147.
-31	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	12.	12.	15.	14.	14.	9.	5.	3.	0.	0.	0.	180.
-35	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.	11.	11.	10.	13.	12.	12.	7.	3.	2.	0.	0.	0.	156.
-40	9.	9.	9.	9.	9.	8.	8.	8.	8.	8.	11.	11.	10.	13.	11.	11.	6.	3.	2.	0.	0.	0.	156.
-45	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	7.	9.	8.	7.	3.	2.	1.	0.	0.	0.	107.
-50	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	5.	5.	5.	6.	4.	3.	2.	1.	1.	0.	0.	0.	67.
-60	3.	3.	3.	3.	3.	3.	3.	3.	3.	2.	3.	3.	3.	3.	2.	2.	1.	1.	1.	0.	0.	0.	43.
-70	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	8.
-80	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	9.
-90	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
	242.	242.	242.	240.	239.	237.	234.	231.	226.	333.	327.	322.	414.	377.	386.	259.	142.	68.	15.	3.	1.	4779.	

LUMEN TOTAL THIS PAGE = 4779.

REPORT NUMBER: RAB02068
 ISSUE DATE: 06/13/16
 PREPARED FOR: RAB LIGHTING INC.

PAGE: 6 OF 7
 DATE SAMPLE TESTED: 06/13/16

LUMEN TABULATION - FIELD ONLY
 AVERAGE OF RIGHT AND LEFT SIDES

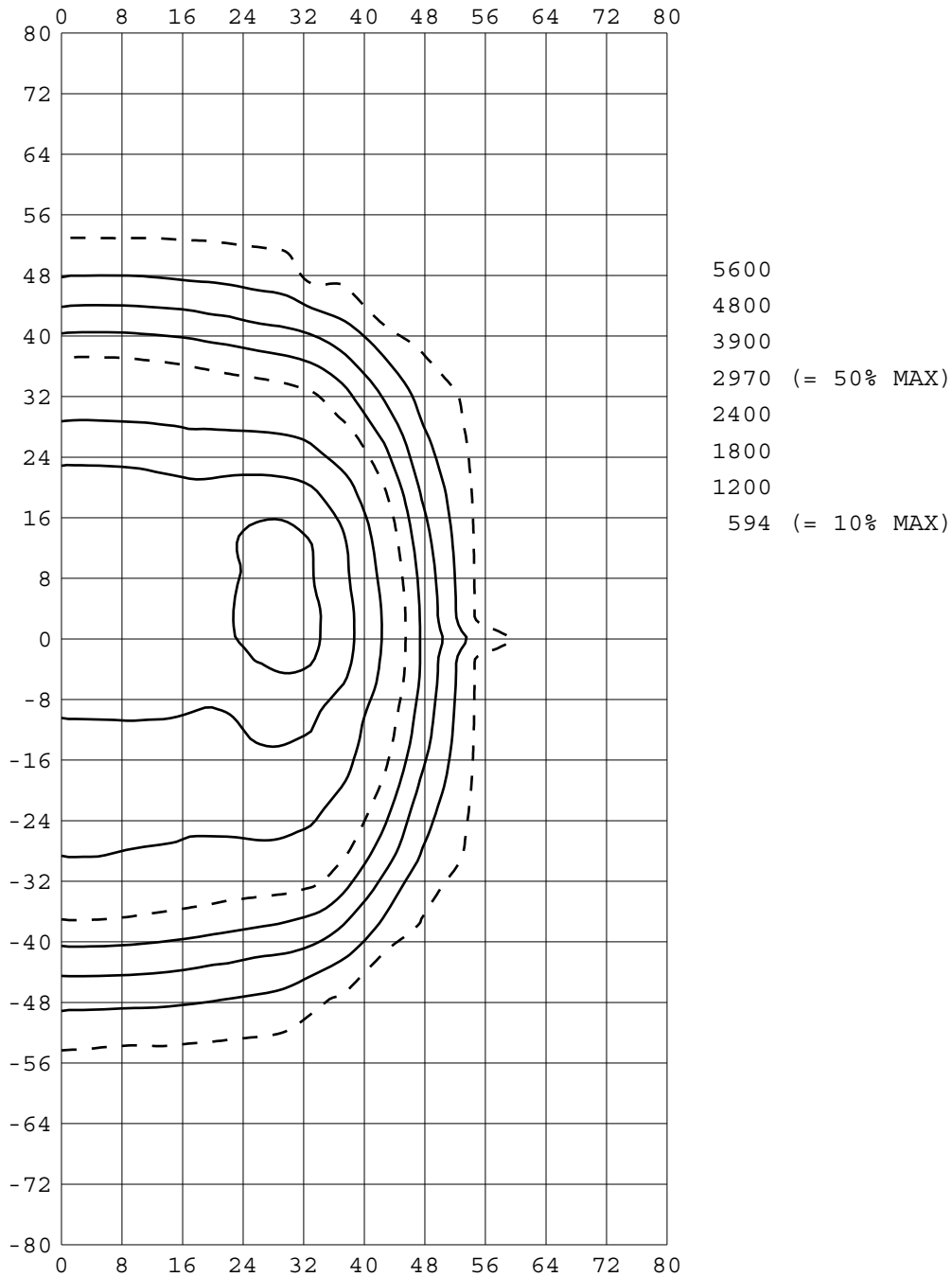
	0	2	4	6	8	10	12	14	16	18	21	24	27	31	35	40	45	50	60	70	80	90	TOTAL	
90																							0.	
80																								0.
70																								0.
60																								0.
50																								0.
45	4.	4.	4.	4.	4.	4.	4.	4.	4.	3.	5.	5.	4.	5.									52.	
40	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	7.	9.	7.	7.							100.	
35	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.	11.	11.	10.	13.	11.	11.	7.	3.					155.	
31	9.	9.	9.	9.	8.	8.	8.	8.	8.	8.	11.	11.	11.	13.	12.	12.	7.	4.					157.	
27	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	12.	12.	15.	14.	14.	9.	5.					178.	
24	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.	11.	11.	10.	13.	12.	12.	8.	4.					152.	
21	9.	9.	9.	9.	9.	9.	8.	8.	8.	8.	12.	12.	12.	15.	13.	14.	9.	5.					169.	
18	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	13.	13.	16.	15.	15.	10.	5.					183.	
16	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	11.	7.	4.					128.	
14	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	11.	8.	4.					132.	
12	6.	7.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	4.					134.	
10	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	4.					134.	
8	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	5.					134.	
6	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	10.	12.	12.	12.	8.	5.					135.	
4	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	10.	13.	12.	12.	9.	5.					136.	
2	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	10.	9.	10.	13.	12.	12.	9.	5.					137.	
0	7.	7.	7.	6.	6.	7.	6.	6.	6.	6.	10.	9.	10.	13.	12.	12.	9.	5.	3.				140.	
-2	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	12.	12.	9.	5.	3.				138.	
-4	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	12.	12.	9.	5.					134.	
-6	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	9.	9.	12.	11.	12.	8.	5.					130.	
-8	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	9.	8.	9.	11.	11.	11.	8.	5.					126.	
-10	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	8.	11.	10.	11.	8.	5.					122.	
-12	6.	6.	6.	6.	6.	6.	6.	6.	6.	5.	8.	8.	8.	11.	10.	10.	8.	4.					118.	
-14	6.	6.	6.	6.	6.	6.	6.	5.	5.	5.	8.	8.	8.	10.	10.	10.	7.	4.					116.	
-16	6.	6.	6.	6.	6.	5.	5.	5.	5.	5.	8.	8.	8.	10.	9.	10.	7.	4.					114.	
-18	6.	6.	6.	5.	5.	5.	5.	5.	5.	5.	8.	8.	8.	10.	9.	10.	7.	4.					111.	
-21	8.	8.	8.	8.	8.	8.	8.	8.	8.	7.	11.	11.	11.	14.	13.	14.	10.	5.					160.	
-24	8.	8.	8.	8.	8.	8.	7.	7.	7.	7.	11.	11.	10.	13.	12.	13.	9.	5.					152.	
-27	7.	7.	7.	7.	7.	7.	7.	7.	7.	7.	10.	10.	10.	13.	12.	12.	8.	4.					144.	
-31	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	13.	12.	12.	15.	14.	14.	9.	5.					177.	
-35	9.	9.	9.	8.	8.	8.	8.	8.	8.	8.	11.	11.	10.	13.	12.	12.	7.	3.					154.	
-40	9.	9.	9.	9.	9.	8.	8.	8.	8.	8.	11.	11.	10.	13.	11.	11.	6.						151.	
-45	6.	6.	6.	6.	6.	6.	6.	6.	6.	6.	8.	8.	7.	9.	8.	7.							101.	
-50	4.	4.	4.	4.	4.	4.	4.	4.	4.	4.	5.	5.	5.	6.	4.								60.	
-60																							0.	
-70																							0.	
-80																							0.	
-90																							0.	
	236.	236.	235.	234.	233.	231.	228.	225.	221.	325.	319.	315.	406.	368.	374.	245.	129.	5.	0.	0.	0.	0.	4563.	

LUMEN TOTAL THIS PAGE = 4563.

REPORT NUMBER: RAB02068
ISSUE DATE: 06/13/16
PREPARED FOR: RAB LIGHTING INC.

PAGE: 7 OF 7
DATE SAMPLE TESTED: 06/13/16

ISOCANDELA CURVES
AVERAGE OF RIGHT AND LEFT SIDES



REPORT NUMBER: RAB02071
DATE: 6/10/2016
PREPARED FOR: RAB LIGHTING INC.
CATALOG NUMBER: FXLED78SF - FXLED78T (SF=SLIPFITTER MOUNT & T=TRUNNION MOUNT)

ADDRESS: 170 LUDLOW AVE, NORTHVALE, NJ 07647

LUMINAIRE: CAST FINNED METAL HOUSING, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER 3 LEDS, 6 CIRCUIT BOARDS EACH WITH 1 LED, CLEAR GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME WITH VISOR.

LAMP: SIX WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDs), 6 LEDS AIMED AT THE HORIZON, 4 LEDS CANTED 21-DEGREES FROM STRAIGHT AHEAD. HORIZON AND CANTED 30-DEGREES FROM STRAIGHT AHEAD.

DRIVER: RD-085-A2000

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	Calibration Due:	N/A
	CHROMA PROGRAMMABLE DIGITAL POWER METER MODEL 66202		2/26/17
	OCEAN OPTICS QE65PRO Spectroradiometer		5/31/17
	RAB 2.0 meter Diameter Integrating Sphere, 4PI Geometry		5/31/17

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

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 DATE: 6/10/2016
 PREPARED FOR: RAB LIGHTING INC.
 CATALOG NUMBER: FXLED78SF - FXLED78T (SF=SLIPFITTER MOUNT & T=TRUNNION MOUNT)

RESULTS:

PHOTOMETRIC	
Total Integrated Flux (lumens)	9559 *
SPECTRORADIOMETRIC	
Observer	CIE 1931 2 degree
Chromaticity Ordinate x	0.3479
Chromaticity Ordinate y	0.3686
Observer	CIE 1976 2 degree
Chromaticity Ordinate u'	0.2068
Chromaticity Ordinate v'	0.4931
Correlated Color Temp CCT (K)	4956
ANSI C78.377-2008 Duv	0.007
Total Radiant Flux (milliWatts)	27605 *
ELECTRICAL	
Input Voltage (Volts AC)	120.0
Input Current (Amps AC)	0.634
Input Power (Watts)	75.7
Input Power Factor (%)	99.5
Input Current THD (%)	5.0
Input Voltage THD (%)	0.2
EFFICACY (Lumens/Watt)	
126.3	
ELECTRICAL AT MAX NONIMAL INPUT	
Input Voltage (Volts AC)	277.0
Input Current (Amps AC)	0.286
Input Power (Watts)	74.1
Input Power Factor (%)	93.7
Input Current THD (%)	14.1
Input Voltage THD (%)	0.2
Off-State Power (Watts)	
0.0	

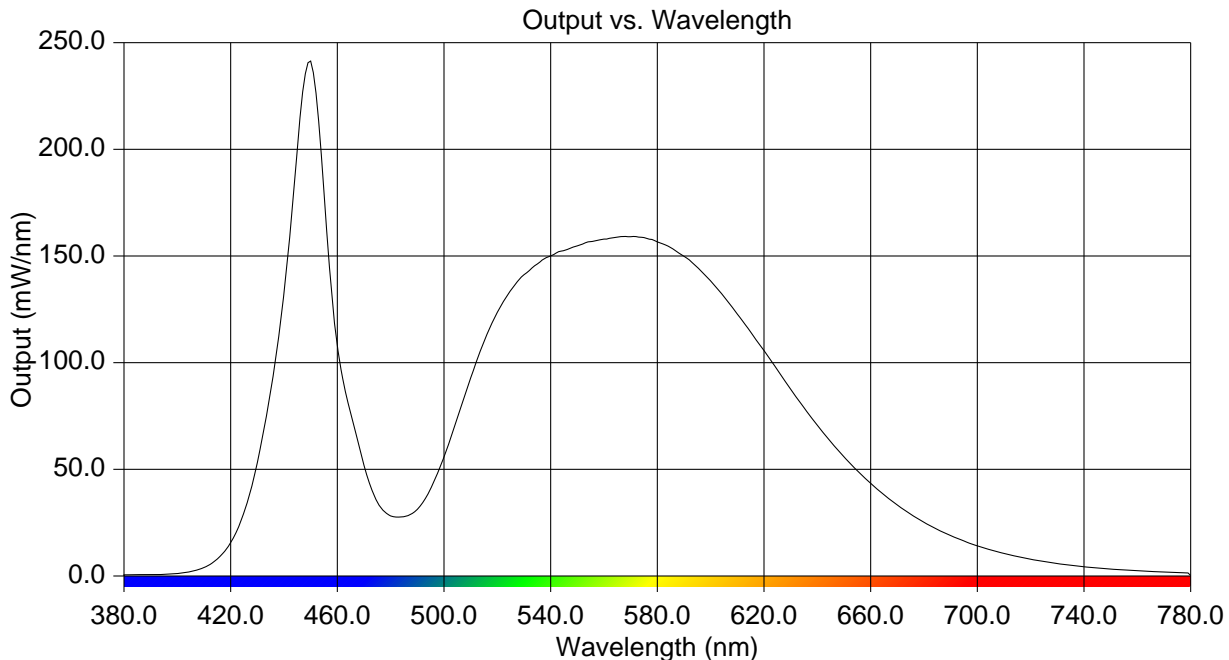
COLOR RENDERING INDICES	CRI
Ra (Average 1-8)	71
R1 Light greyish red	67
R2 Dark greyish yellow	76
R3 Strong yellowish green	82
R4 Moderate yellowish green	71
R5 Light bluish green	68
R6 Light blue	67
R7 Light violet	82
R8 Light reddish purple	55
R9 Strong red	-37
R10 Strong yellow	42
R11 Strong green	67
R12 Strong blue	36
R13 Light yellowish pink (skin)	68
R14 Moderate olive green (leaf)	90

*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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RESULTS:

Wavelength	mW per nm	Wavelength	mW per nm	Wavelength	mW per nm
380	0.540	515	109.984	650	55.833
385	0.548	520	123.672	655	49.349
390	0.621	525	133.968	660	43.449
395	0.804	530	141.226	665	38.023
400	1.181	535	146.254	670	33.209
405	2.022	540	150.009	675	28.940
410	4.002	545	152.537	680	25.161
415	7.976	550	154.754	685	21.820
420	15.644	555	156.778	690	18.883
425	29.944	560	157.925	695	16.422
430	53.101	565	158.766	700	14.085
435	86.913	570	159.039	705	12.207
440	132.161	575	158.637	710	10.570
445	200.386	580	156.611	715	9.118
450	241.377	585	154.011	720	7.836
455	179.846	590	149.858	725	6.760
460	107.808	595	144.510	730	5.832
465	76.368	600	138.399	735	5.022
470	51.854	605	130.937	740	4.322
475	34.635	610	122.764	745	3.745
480	28.149	615	114.361	750	3.263
485	27.804	620	105.688	755	2.816
490	31.231	625	96.733	760	2.422
495	40.791	630	87.482	765	2.122
500	55.816	635	78.914	770	1.839
505	73.963	640	70.625	775	1.614
510	92.832	645	62.929	780	0.242



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CIE Chromaticity Diagram

