Replacement Parts

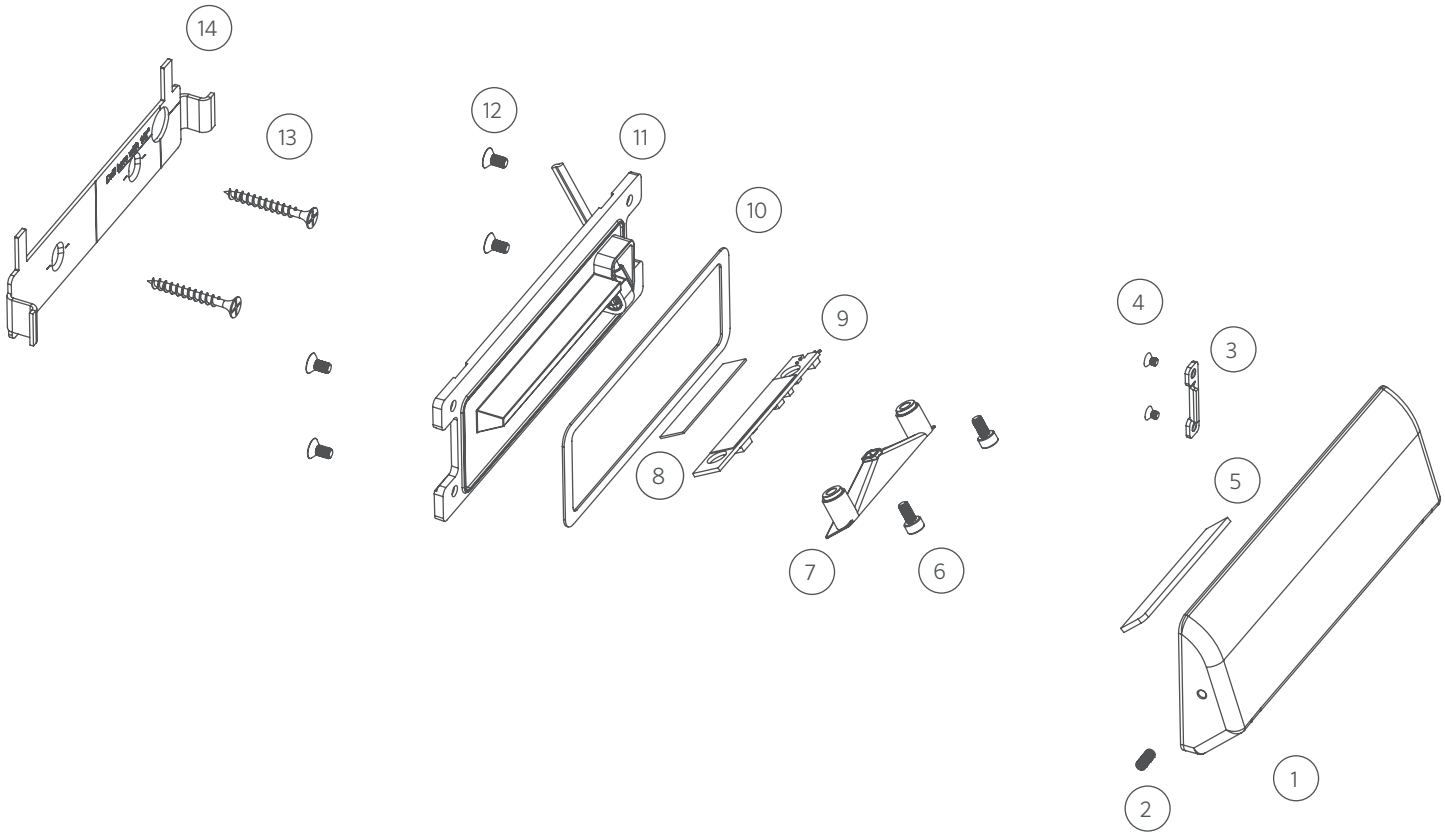
ITEM	DESCRIPTION	CATALOG #
1, 2, 3, 4, 5	Faceplate Assembly	SFFPXX*
6, 7, 8	Reflector Kit	SFASSYKIT
9	LED Board	See LED Chart
10	Gasket	†
11	Body and Socket	†
12	Screw, Flathead, M4 x 0.7 mm, 8 mm LG, ST (order 4 pcs)	250036190000SP**
13	Screw, Phillips, 6-18 x 1.5" LG, Drywall (order 2 pcs)	250013060000
14	Mounting Bracket	MKSF

XX* = Finish code
† This part is not serviceable. Contact Customer Support or a local distributor to order a new product.
** Must order in quantities of 12.

LED Replacement

DESCRIPTION	CATALOG #
1 LED, 2,700K	755903**
1 LED, 3,900K	755904**
1 LED, Zoning/Dimming, 2,700K	755905**
1 LED, Zoning/Dimming, 3,900K	755906**
ZDC, Linear	ZDCKITR**

** Includes LED board only



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8165 E Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L082111203 **Issue Date: 9/1/2021**

Report Prepared For: Hunter Industries
1940 Diamond Street, San Marcos, CA 92078

Model Number: SFZDCWG

Test: Photometric/Colorimetric/Electrical Test

Standards Used: Appropriate part or all test guidelines were used for test performed:

IESNA LM79: 2019 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2017 Specification of the Chromaticity of Solid State Lighting Products

ANSI C82.77-10:2014: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

Special Test Condition: Fixture is tested using Controller(FXLumiaire LUXOR ZD LZD 150) with setting of Grp/Thm to ALL Lts, Hue 43, Sat 50%, and Electricals are measured at fixture input.

Sample Arrival Date: 8/18/21

Date of Tests: 8/28/21 - 8/29/21

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/23
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

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NVLAP TESTING
NVLAP LAB CODE 200927-0

General Information	
Manufacturer:	Hunter Industries
Model Number:	SFZDCWG
Driver Model Number:	N/A

Test Summary	
Total Lumens:	75.80
Efficacy:	20.97
Color Redering Index:	59.0
Correlated Color Temperature:	2814
Input Voltage (VAC/60Hz):	14.74
Input Current (Amp):	0.3061
Input Power (W):	3.61
Input Power Factor:	0.8013
Current ATHD (%):	56.8%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:50
Total Operating Time (Hours):	2:50

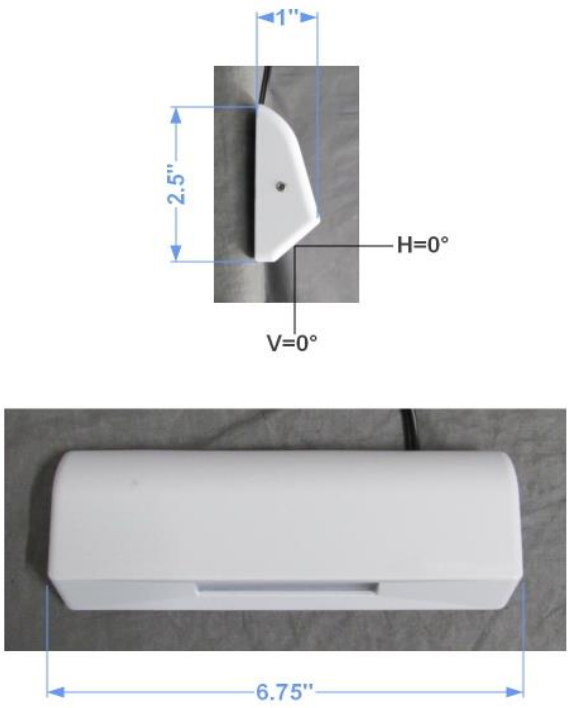


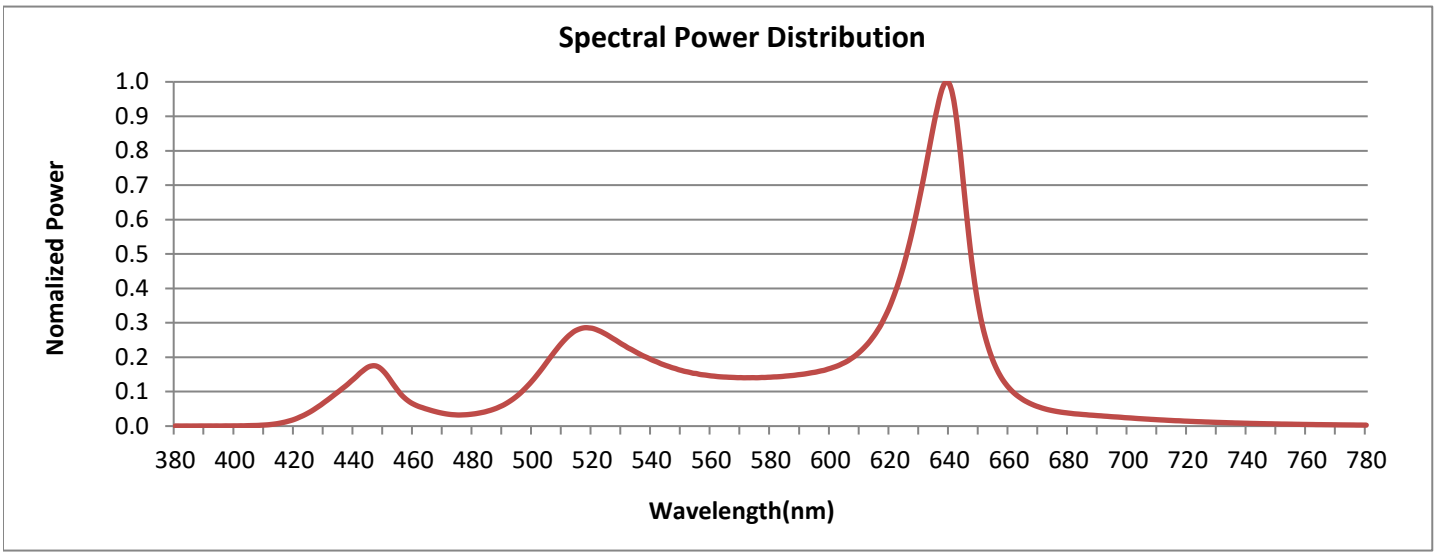
FIG. 1 LUMINAIRE

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Report No: L082111203

NVLAP TESTING
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Colorimetry Test Results

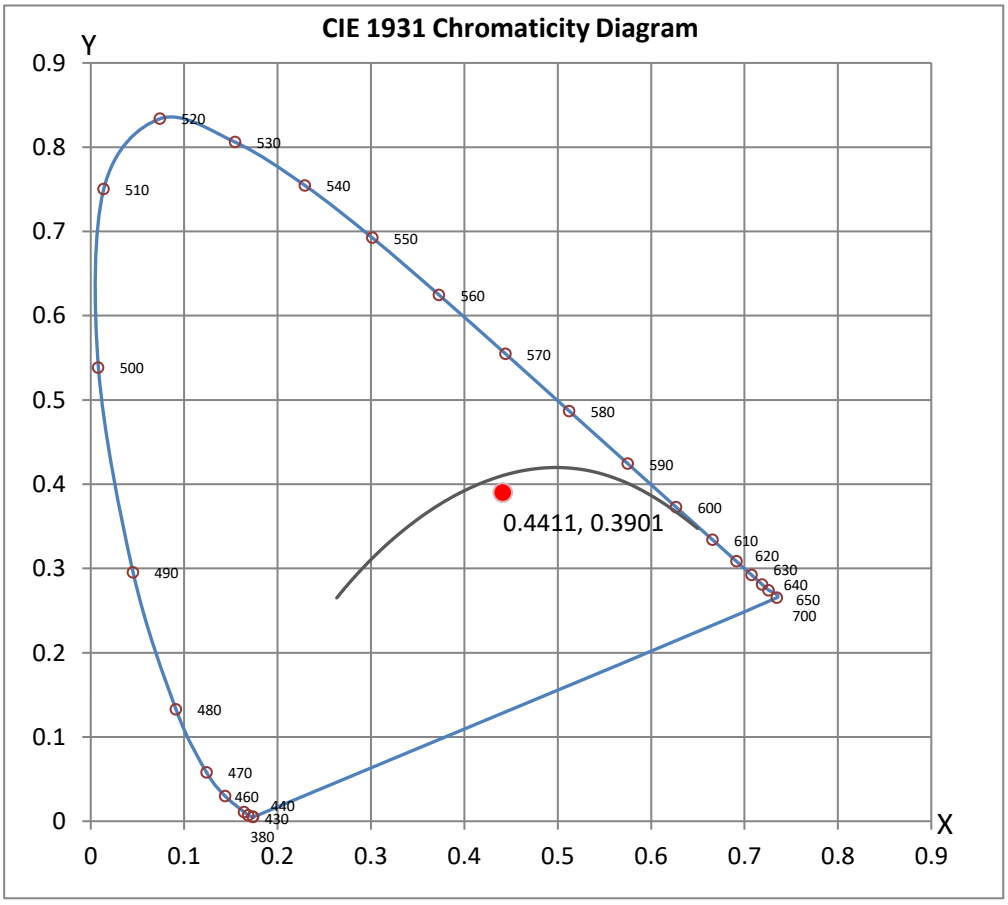


CRI & CCT

x	0.4411
y	0.3901
u'	0.2595
v'	0.5164
CRI	59.00
CCT	2814
Duv	-0.00611

R Values

R1	52.34
R2	82.39
R3	80.14
R4	38.81
R5	50.15
R6	70.08
R7	70.86
R8	26.99
R9	-39.61
R10	61.41
R11	18.59
R12	56.34
R13	58.13
R14	85.92
R15	50.08



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Test Methods

Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25^{o}C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25^{o}C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25^{o}C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25^{o}C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by : Kunjan Modi

Test Report Reviewed by:

Steve Kang
Quality Assurance

**Attached are photometric data reports.*

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Photometric Test Report

IES ROAD REPORT
PHOTOMETRIC FILENAME : L082111203.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L082111203
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 9/1/2021
[MANUFAC] HUNTER INDUSTRIES
[LUMCAT] SFZDCWG
[LUMINAIRE] SF ZDC White Gloss
[BALLASTCAT] Luxor Controller to Power Light at Hue 43, Sat 50
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 14.70
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	76
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	3.61
Ballast Factor	1.00
Upward Waste Light Ratio	0.06
Maximum Candela	64
Maximum Candela Angle	20H 30V
Maximum Candela (<90 Degrees Vertical)	64
Maximum Candela Angle (<90 Degrees Vertical)	20H 30V
Maximum Candela At 90 Degrees Vertical	8 (10.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	9 (11.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : L082111203.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

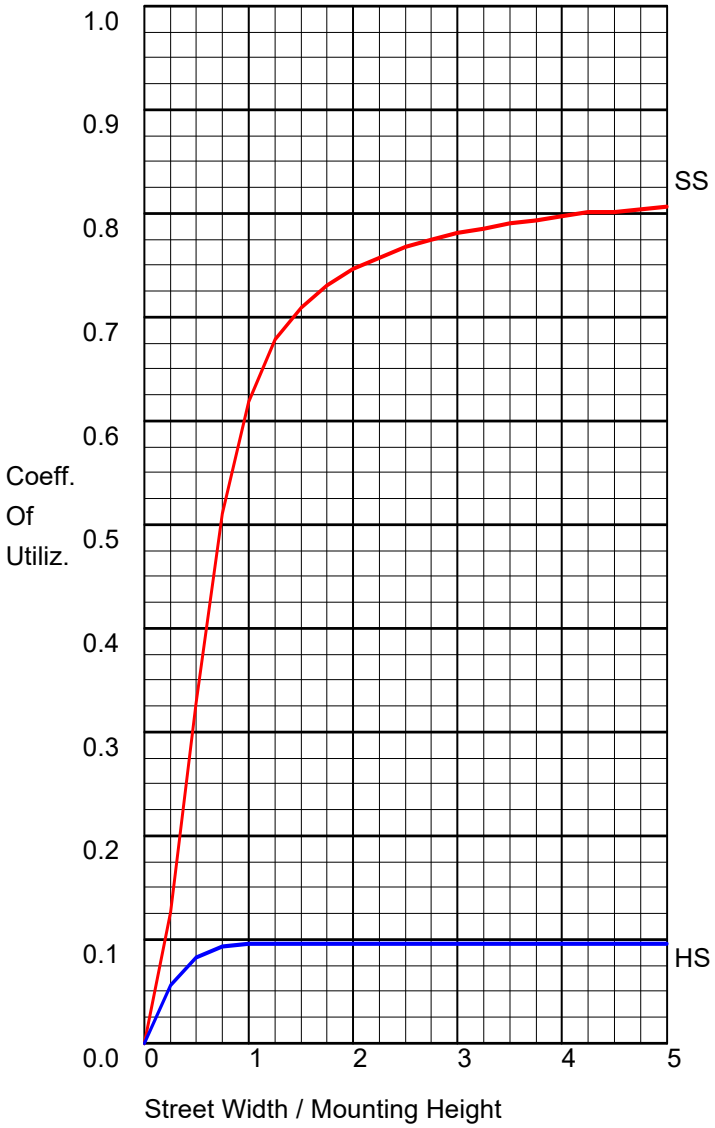
	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	16.4	N.A.	21.6
FM - Front-Medium (30-60)	34.9	N.A.	46.1
FH - Front-High (60-80)	9.5	N.A.	12.6
FVH - Front-Very High (80-90)	3.2	N.A.	4.2
BL - Back-Low (0-30)	3.7	N.A.	5.0
BM - Back-Medium (30-60)	3.1	N.A.	4.1
BH - Back-High (60-80)	0.4	N.A.	0.5
BVH - Back-Very High (80-90)	< 0.05	N.A.	0.0
UL - Uplight-Low (90-100)	2.4	N.A.	3.2
UH - Uplight-High (100-180)	2.1	N.A.	2.8
Total	75.7	N.A.	100.0
BUG Rating	B0-U1-G0		

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COEFFICIENTS OF UTILIZATION



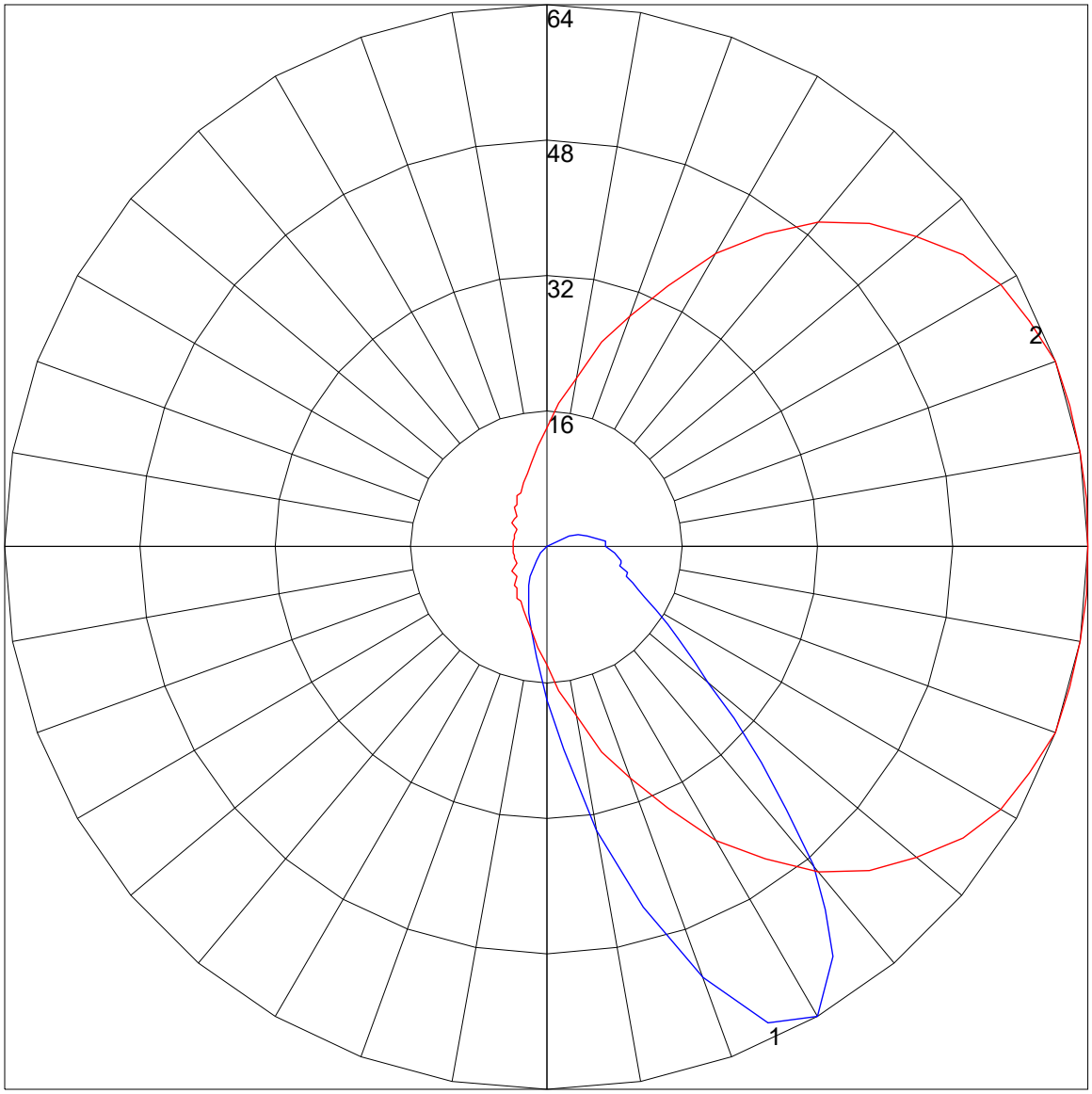
FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	64.0	84.5
Downward House Side	7.3	9.6
Downward Total	71.3	94.1
Upward Street Side	4.5	5.9
Upward House Side	0.0	0.0
Upward Total	4.5	5.9
Total Flux	75.8	100.1

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POLAR GRAPH

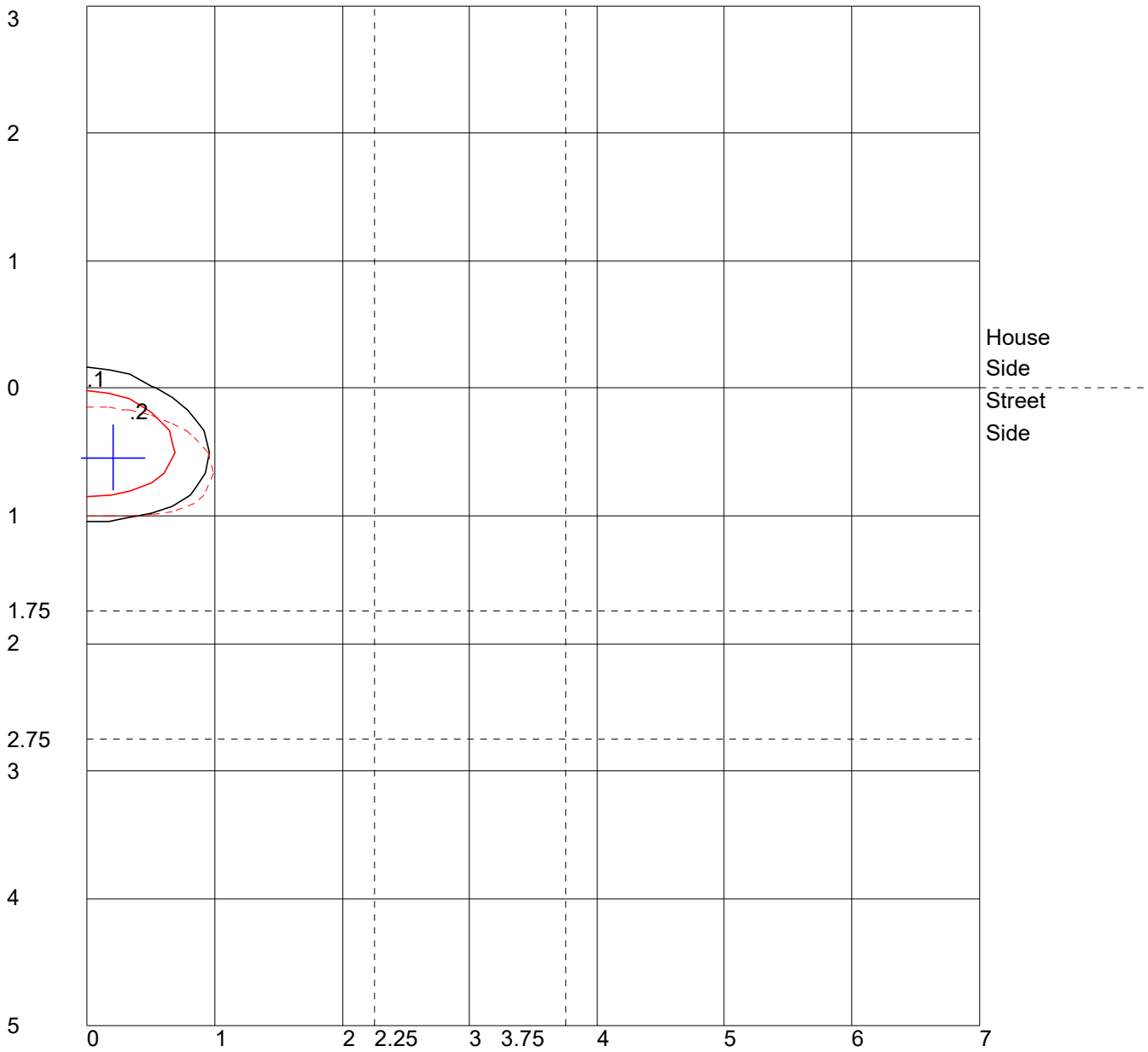


Maximum Candela = 64 Located At Horizontal Angle = 20, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

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ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

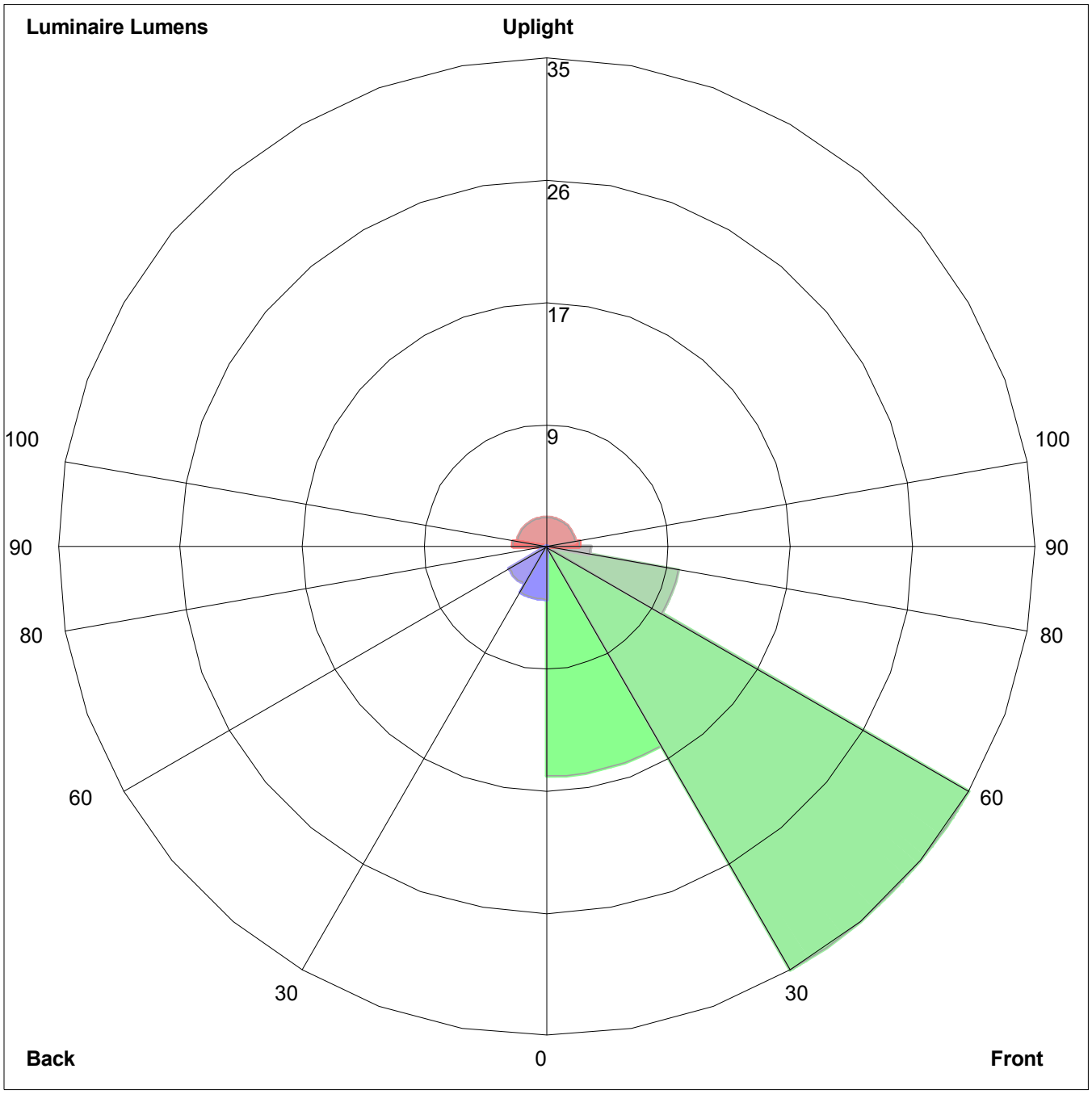


Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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IES ROAD REPORT
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LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=16.4, Medium=34.9, High=9.5, Very High=3.2
Back: Low=3.7, Medium=3.1, High=0.4, Very High=0.0
Uplight: Low=2.4, High=2.1

BUG Rating : B0-U1-G0

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