



Report No: L052210903R01 Issue Date: 5/18/2022

Report Prepared For: Beachside Lighting

905 Kalanianaole Hwy., #2901, Kailua, HI 96734 USA

Model Number: E16-30-7W-A-BGS-SA

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 with no special conditions.

Date of Tests: 5/16/22

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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Manufacturer:Beachside LightingModel Number:E16-30-7W-A-BGS-SA

Driver Model Number: N/A

T	es	t.	S	u	m	m	aı	٢v

Total Lumens:	153.00
Efficacy:	24.83
Color Redering Index:	-24.5
Correlated Color Temperature:	1611
Input Voltage (VAC/60Hz):	12.01
Input Current (Amp):	0.6654
Input Power (W):	6.16
Input Power Factor:	0.7713
Current ATHD (%):	60.1%

Test Condition

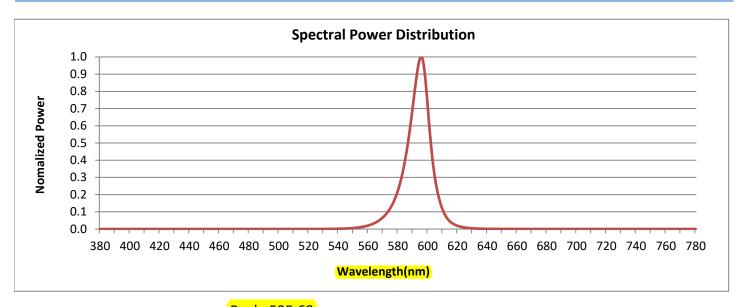
Ambient Temperature (°C): 25.0
Stabilization Time (Hours): 1:35
Total Operating Time (Hours): 2:10





FIG. 1 LUMINAIRE

Colorimetry Test Results

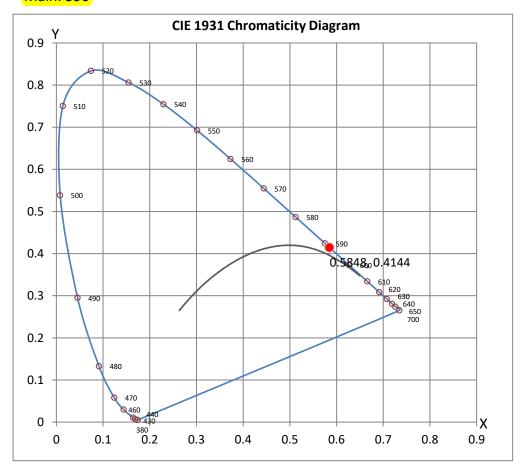


Peak: 595.68 Main: 590

CRI & CCT

х	0.5848
у	0.4144
u'	0.3438
٧'	0.5482
CRI	-24.50
ССТ	1611
Duv	0.00748

R Values	
R1	-40.00
R2	48.56
R3	18.72
R4	-70.31
R5	-43.33
R6	38.06
R7	-8.71
R8	-138.85
R9	-402.10
R10	23.11
R11	-99.76
R12	-16.06
R13	-21.47
R14	46.42
R15	-70.37





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TESTING

NVLAP LAB CODE 200927-0

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°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°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°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°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:

Steveling

Steve Kang

Quality Assurance

^{*}Attached are photometric data reports.



Photometric Test Report

IES ROAD REPORT

PHOTOMETRIC FILENAME: L052210903.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNIESNA:LM-63-2002

[TEST] L052210903

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUEDATE] 5/17/2022

[MANUFAC] Beachside Lighting

[LUMCAT] E16-30-7W-A-BGS-SA

[LUMINAIRE] E16 with Fixed 30 Deg. Angle, supplied with 7 watt AMBER light engine, narrow flood optic, and angled glare shield [BALLASTCAT] N/A

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 12VAC

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

IES ClassificationType ILongitudinal ClassificationVery ShortLumens Per LampN.A. (absolute)Total Lamp LumensN.A. (absolute)

Luminaire Lumens 153

Downward Total Efficiency N.A. (absolute)
Total Luminaire Efficiency N.A. (absolute)

Luminaire Efficacy Rating (LER) 25 **Total Luminaire Watts** 6.16 **Ballast Factor** 1.00 Upward Waste Light Ratio 0.00 Maximum Candela 658 Maximum Candela Angle 0H 26V Maximum Candela (<90 Degrees Vertical) 658 Maximum Candela Angle (<90 Degrees Vertical) 0H 26V

Maximum Candela At 90 Degrees Vertical 0 (0.0% Luminaire Lumens)

Maximum Candela from 80 to <90 Degrees Vertical 1 (0.7% Luminaire Lumens)

Cutoff Classification (deprecated) N.A. (absolute)

IES ROAD REPORT

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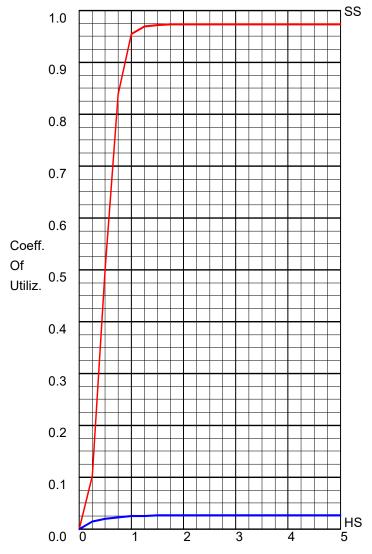
LUMINAIRE CLASSIFICATION SYSTEM (LCS)

FL - Front-Low (0-30) FM - Front-Medium (30-60) FH - Front-High (60-80) FVH - Front-Very High (80-90) BL - Back-Low (0-30) BM - Back-Medium (30-60) BH - Back-High (60-80) BVH - Back-Very High (80-90) UL - Uplight-Low (90-100) UH - Uplight-High (100-180)	Lumens 86.2 62.2 0.4 0.1 2.3 1.3 0.4 0.1 0.0	% Lamp N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A	% Luminaire 56.4 40.6 0.3 0.0 1.5 0.9 0.3 0.1 0.0 0.0
Total	153.0	N.A.	100.0
BUG Rating	B0-U0-G0		

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COEFFICIENTS OF UTILIZATION

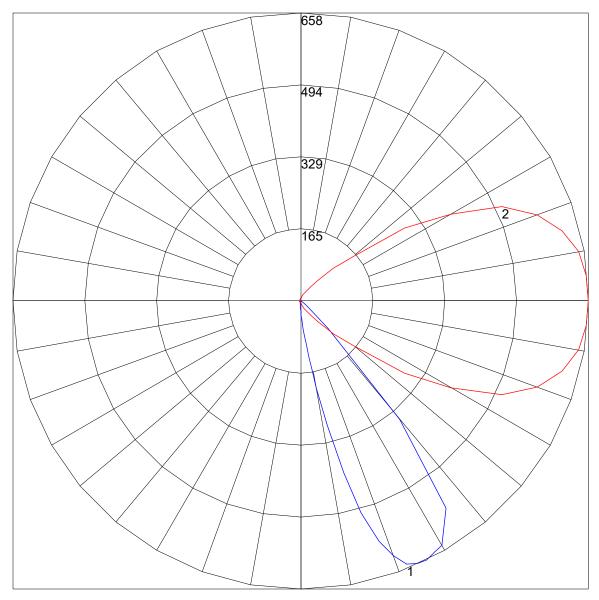


Street Width / Mounting Height

FLUX DISTRIBUTION

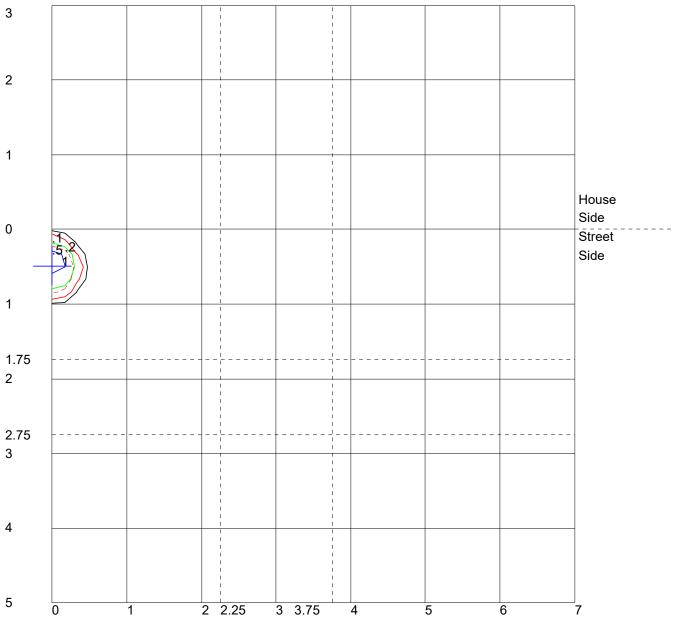
	Lumens	Percent Of Luminaire
Downward Street Side	148.9	97.3
Downward House Side	4.1	2.7
Downward Total	153.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	153.0	100.0

POLAR GRAPH



Maximum Candela = 658 Located At Horizontal Angle = 0, Vertical Angle = 26 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Horizontal Cone Through Vertical Angle (26) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 20 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point