

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:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

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**Attached are photometric data reports. Total number of pages: 8*



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Photometric Test Report

IES FLOOD REPORT
PHOTOMETRIC FILENAME : L061805923.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L061805923
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 7/11/2018
[MANUFAC] USTE, dba Vista Professional Outdoor Lighting
[LUMCAT] 1057-X-MF-30-C-MV-ND-LSF
[LUMINAIRE] LED Floodlight, MF Distribution, Linear Spread Filter
[BALLASTCAT] THOMAS RESEARCH PRODUCTS LED40W-045-C0900-D(900mA)
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 37.41W
[TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	5 H x 5 V
Maximum Candela	3109
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	43.6
Vertical Beam Angle (50%)	43.6
Horizontal Field Angle (10%)	80.2
Vertical Field Angle (10%)	80.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1023
Beam Efficiency	N.A.
Field Lumens	1767
Field Efficiency	N.A.
Spill Lumens	364
Luminaire Lumens	2132
Total Efficiency	N.A.
Total Luminaire Watts	37.41
Ballast Factor	1.00

IES FLOOD REPORT
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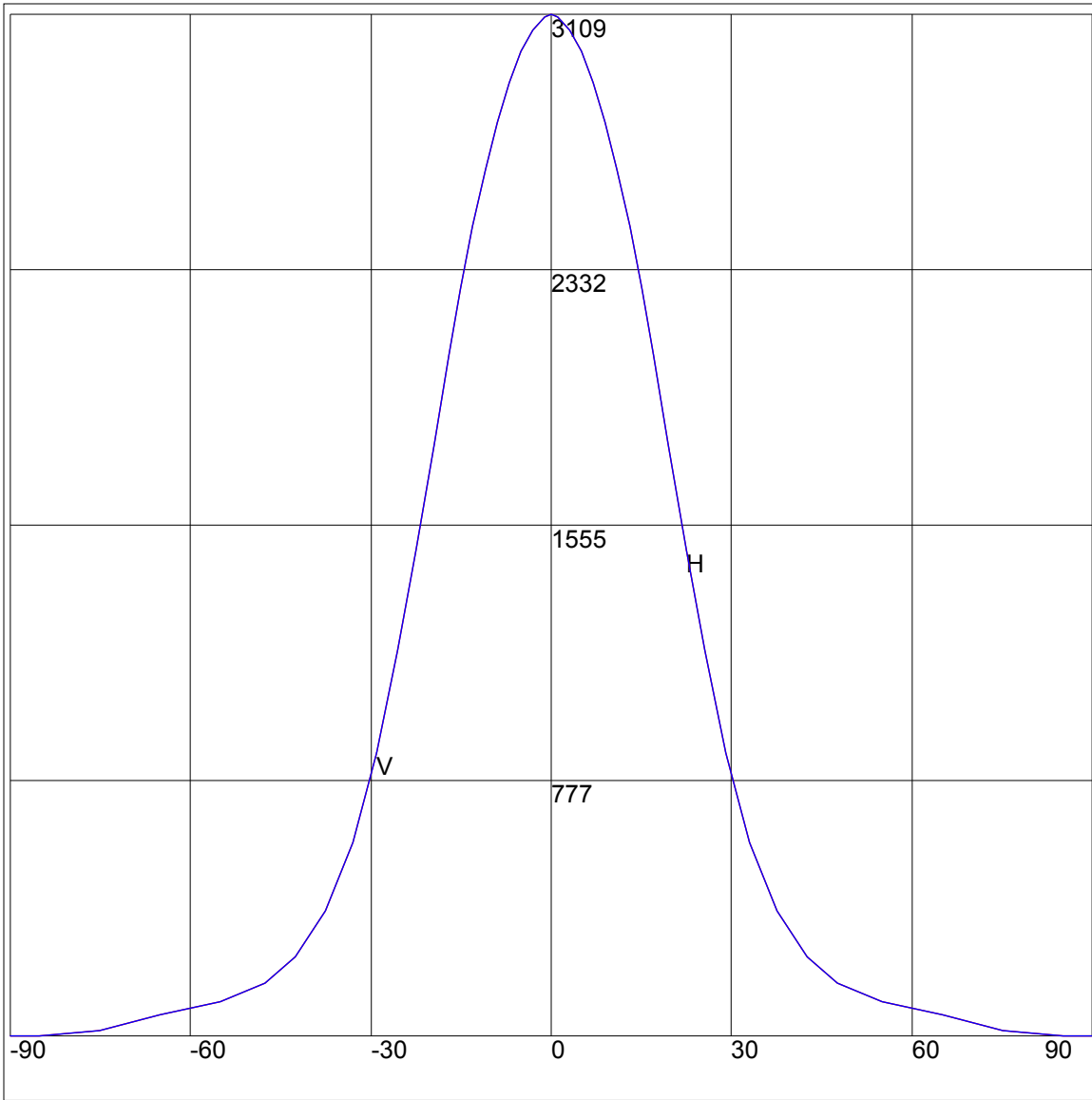
AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	1	85	1
75	17	75	17
65	66	65	66
55	105	55	105
47.5	163	47.5	163
42.5	243	42.5	243
37.5	384	37.5	384
33	591	33	591
29	864	29	864
25.5	1176	25.5	1176
22.5	1479	22.5	1479
19.5	1802	19.5	1802
17	2071	17	2071
15	2275	15	2275
13	2465	13	2465
11	2636	11	2636
9	2780	9	2780
7	2901	7	2901
5	2996	5	2996
3	3062	3	3062
1	3100	1	3100
0	3109	0	3109
-1	3100	-1	3100
-3	3062	-3	3062
-5	2996	-5	2996
-7	2901	-7	2901
-9	2780	-9	2780
-11	2636	-11	2636
-13	2465	-13	2465
-15	2275	-15	2275
-17	2071	-17	2071
-19.5	1802	-19.5	1802
-22.5	1479	-22.5	1479
-25.5	1176	-25.5	1176
-29	864	-29	864
-33	591	-33	591
-37.5	384	-37.5	384
-42.5	243	-42.5	243
-47.5	163	-47.5	163
-55	105	-55	105
-65	66	-65	66
-75	17	-75	17
-85	1	-85	1
-90	0	-90	0

ZONAL LUMEN SUMMARY

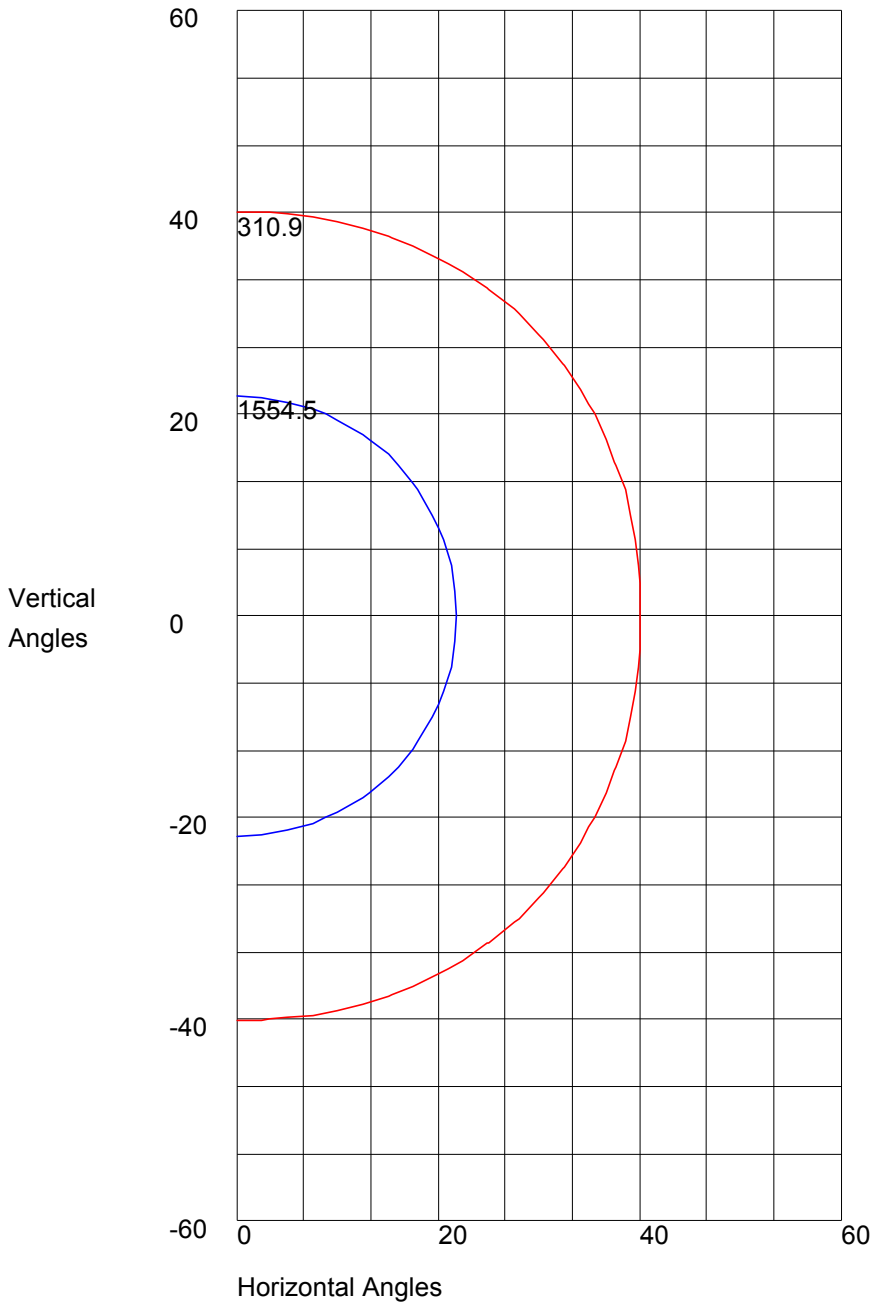
Zone	%
0-20	40.8
0-30	66.6
0-40	80.8
0-60	93.7
0-80	99.5
0-90	100
10-90	89.3
20-40	40
20-50	48.9
40-70	16.7
60-80	5.8
70-80	2
80-90	0.5
90-110	0
90-120	0
90-130	0
90-150	0
90-180	0
110-180	0
0-180	100

AXIAL CANDELA DISPLAY



Maximum Candela = 3109 Located At Horizontal Angle = 0, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 3109 Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 1554.5
10% Maximum Candela = 310.9