

SONNEMAN - A WAY OF LIGHT TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

2692

PROJECT NUMBER

G104119984

REPORT NUMBER

104119984CRT-010

REPORT ISSUE DATE

October 21, 2019

REPORT REVISION DATE

None



REPORT NUMBER
104119984CRT-010

TEST OF (1) ABSTRACT PANELS LARGE 2-PLATE LED SCONCE

MODEL NUMBER
2692

REPORT RENDERED TO:
SONNEMAN - A WAY OF LIGHT
151 AIRPORT DRIVE
WAPPINGERS FALLS, NY 12590
USA

STATEMENT OF LIMITATION

NVLAP Lab Code 100402-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01007713.

TEST STANDARDS

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

TEST DATES

October 8, 2019

In Charge Of Tests:



Gerald Gray
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Report Reviewed By:



Melanie Brittain
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SAMPLE INFORMATION

Control No.	Model No.	Description	Type	Received
CRT19101609-003	2692	Abstract Panels Large 2-Plate LED Sconce	Production	10/16/2019

SAMPLE PHOTOS



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SUMMARY OF DATA

Product Model No.:	2692
Product Description:	Abstract Panels Large 2-Plate LED Sconce
LED Model No.:	Not Provided
Driver Model No.:	ERP EBR015U-0350-42
Light Source:	LED

Criteria	Results
Light Output (lumens)	239.7
Input Power (W) @ 120 (Vac)	14.09
Lumen Efficacy (lm/W)	17.0
Input Power Factor () @ 120 (Vac)	0.987

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD

A Type C Mirror Goniometer was used to measure the intensity (candela) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

The calibration of the goniometer-photometer system is traceable to the National Institute of Standards and Technology.

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PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)

Fixture Model No.	2692	Fixture Control No.	CRT19101609-003
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Test Notes:	N/A
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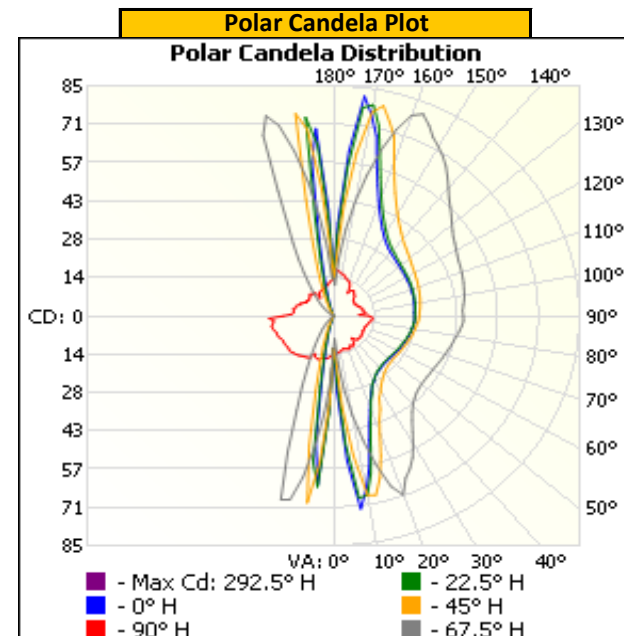
Base Orientation
Horizontal

Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
12.00	119.0	14.09	0.987

Light Output (lm)	Lumen Efficacy (lm/W)
239.7	17.0

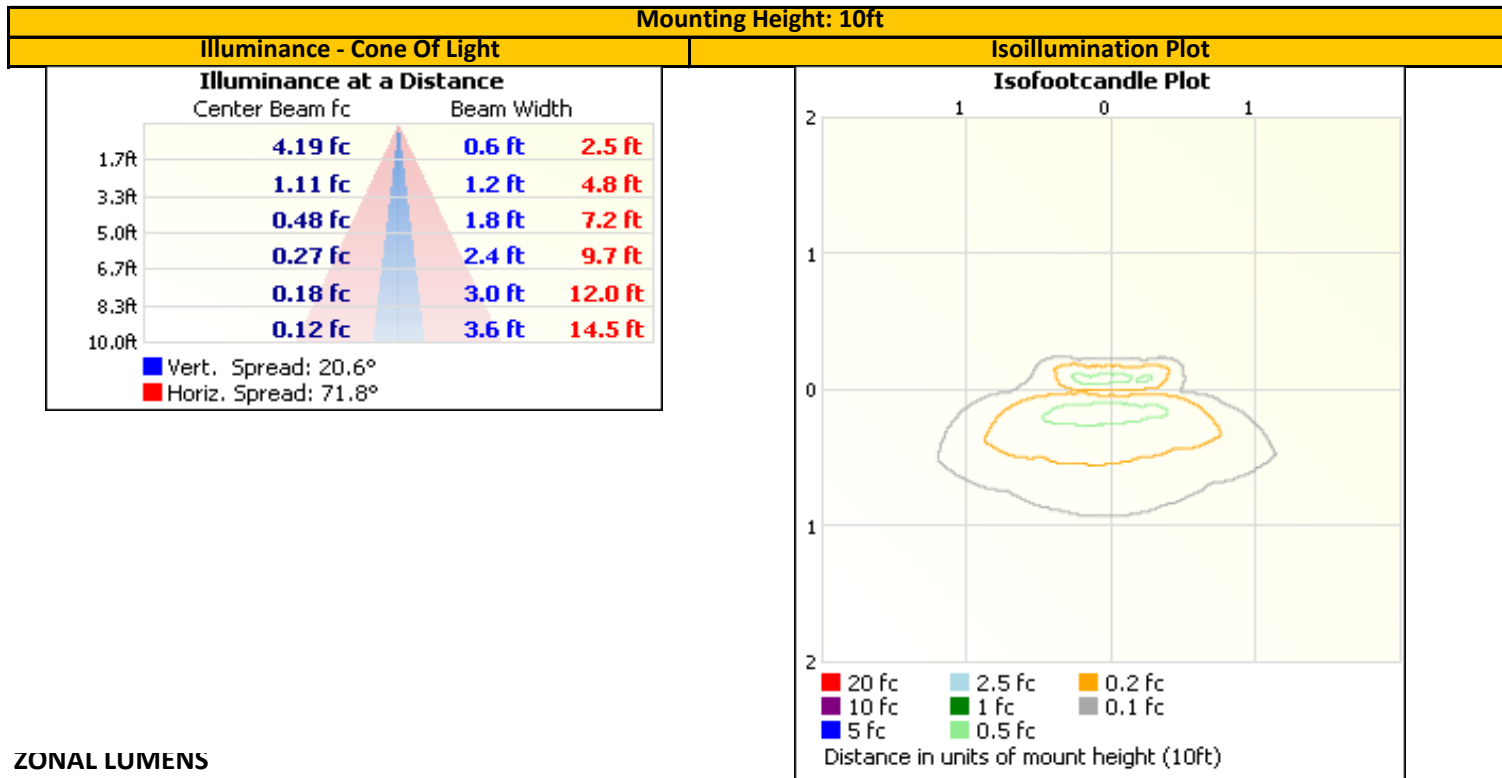
INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	12	12	12	12	12
5	54	48	34	18	14
10	65	67	67	37	13
15	48	50	62	57	12
20	37	38	47	70	13
25	31	32	38	62	13
30	28	28	32	55	13
35	26	26	29	47	12
40	25	25	27	43	11
45	25	24	26	40	12
50	25	24	26	40	12
55	25	25	26	39	12
60	26	25	26	40	12
65	26	26	27	40	12
70	27	26	27	41	12
75	27	27	28	42	12
80	28	27	29	43	13
85	28	28	29	44	14
90	28	28	30	45	12
95	28	28	30	45	11
100	28	29	30	46	10
105	28	29	31	46	10
110	29	29	31	47	10
115	29	29	32	48	9
120	29	29	32	49	8
125	29	30	33	50	9
130	29	30	34	53	9
135	30	31	35	57	10
140	31	32	37	62	11
145	32	33	40	68	11
150	35	36	44	72	10
155	39	41	50	78	13
160	45	48	61	79	14
165	58	62	74	64	15
170	76	79	76	43	16
175	61	55	41	22	17
180	14	14	14	14	14



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	26.3	11.0%	90-100	17.0	7.1%
0-40	38.1	15.9%	100-110	16.8	7.0%
0-60	64.4	26.9%	110-120	16.1	6.7%
60-90	48.9	20.4%	120-130	15.5	6.5%
70-100	50.9	21.2%	130-140	15.1	6.3%
90-120	50.0	20.9%	140-150	14.4	6.0%
0-90	113.3	47.3%	150-160	14.1	5.9%
90-180	126.4	52.7%	160-170	12.6	5.3%
0-180	239.7	100.0%	170-180	4.6	1.9%

Test Equipment Used:	1 thru 10				
Ambient Temp (°C):	24.7	Relative Hum (%):	NA	Test Completion Date	10/18/2019

See last page for equipment details

EQUIPMENT LIST

[illegible]