

SONNEMAN - A WAY OF LIGHT TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

23QxxL140B120PHA

PROJECT NUMBER

G104393027

REPORT NUMBER

104393027CRT-047

ISSUE DATE

8/11/2021

REVISED DATE

None

TEST DATES

8/10/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

© 2017 INTERTEK



REPORT NUMBER

104393027CRT-047

MODEL NUMBER(s)

23QXXL140B120PHA

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-01089188-0.

TEST STANDARDS

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

In Charge of Testing:

Reviewer:



Gerald Gray
Associate Engineer
Lighting Division



Melanie Brittain
Senior Associate Engineer
Lighting Division

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

SAMPLE INFORMATION

REPORT NO. 104393027CRT-047

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2107191345-014	23QxxL140B120PHA	Purolinear360 48" Single Linear LED Wall Bar	Production	7/19/2021
xx denotes exterior finish and does not impact performance.					

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	23QxxL140B120PHA	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 104393027CRT-047

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	23QxxL140B120PHA
Product Description:	Purolinear360 48" Single Linear LED Wall Bar
LED Model No.:	Not Provided
Driver Model No.:	LTF DS25W24VBF1UD
Light Source:	LED

Criteria	Results
Light Output (lumens)	1022.3
Input Power (W) @ 120 (Vac)	16.05
Lumen Efficacy (lm/W)	63.7
Input Power Factor () @ 120 (Vac)	0.967

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

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

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 104393027CRT-047

Test Configuration	Tested Model No.	Pass/Fail/NA
1	23QxxL140B120PHA	NA

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

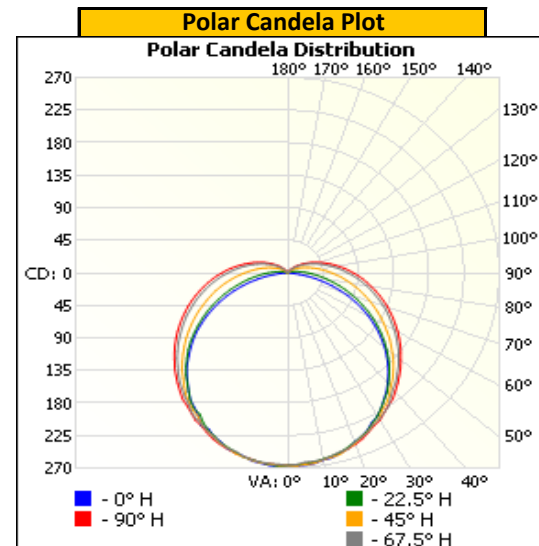
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Horizontal	120.01	138.3	16.05	0.967

Light Output (lm)	Lumen Efficacy (lm/W)
1022.3	63.7

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	266	266	266	266	266
5	266	265	266	262	265
10	262	261	262	262	262
15	258	257	260	256	258
20	249	249	251	250	252
25	240	241	242	242	243
30	229	229	233	234	235
35	214	214	220	224	224
40	198	200	204	209	214
45	181	183	190	198	201
50	162	165	175	184	188
55	141	146	159	171	175
60	119	126	142	157	162
65	96	105	126	143	148
70	72	86	111	129	135
75	48	68	96	115	122
80	26	52	82	102	109
85	7	38	68	90	96
90	0	26	56	77	84
95	0	18	46	66	73
100	0	12	36	55	62
105	0	7	28	46	52
110	0	5	22	37	42
115	0	3	17	29	34
120	0	1	12	23	27
125	0	0	8	17	20
130	0	0	6	12	15
135	0	0	3	8	10
140	0	0	2	5	6
145	0	0	0	3	4
150	0	0	0	1	1
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



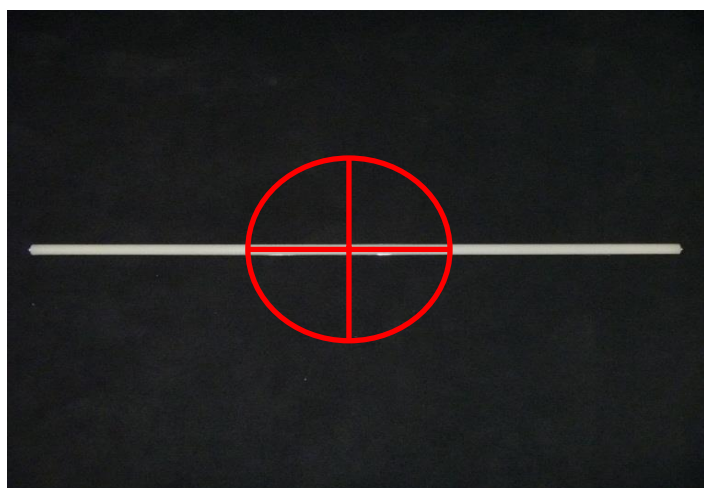
REPORT NO. 104393027CRT-047

ORIENTATION AND ALIGNMENT OF EUT

Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
3.93	0.06	0.00
0°-180° H	90°-270° H	0°-180° V

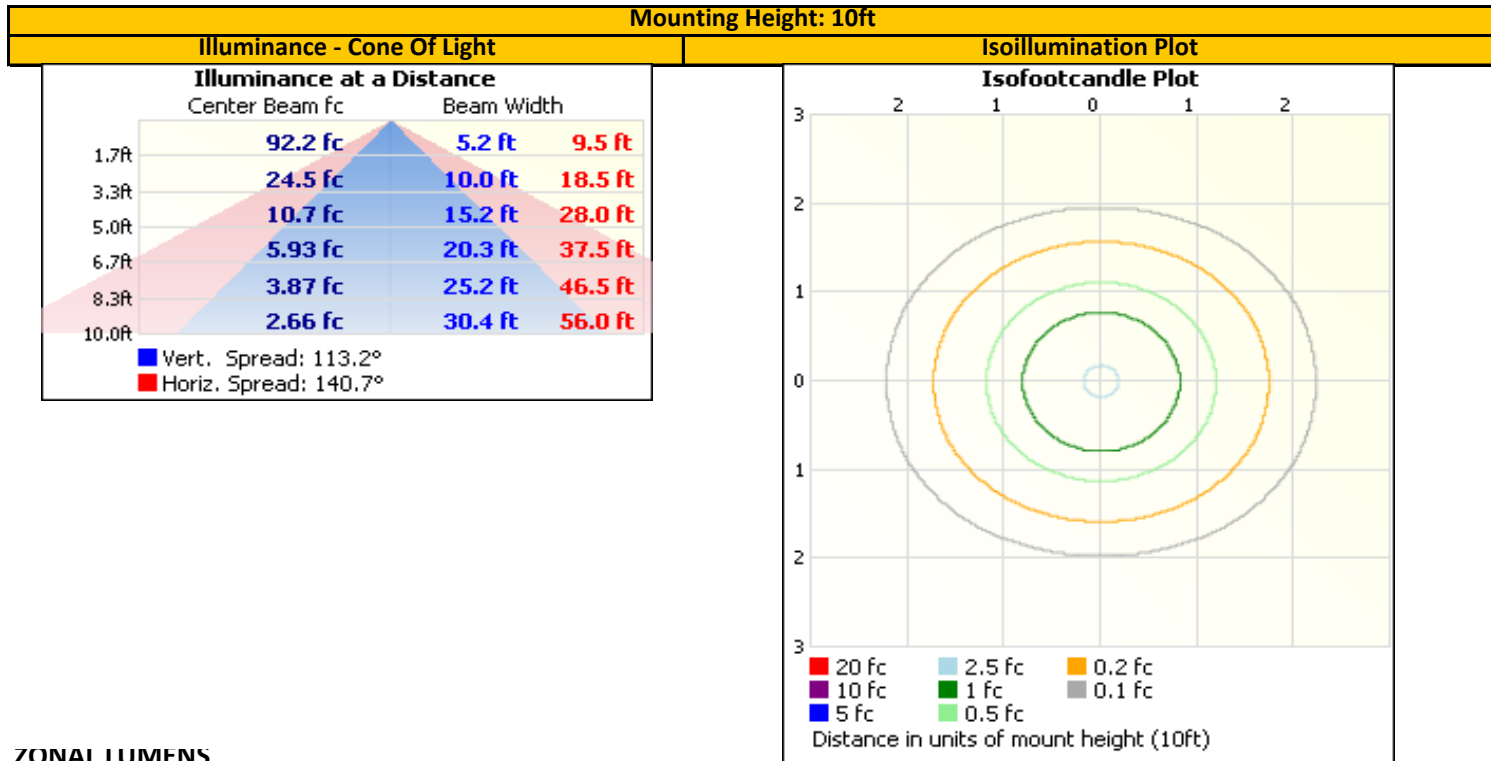
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



REPORT NO. 104393027CRT-047

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	209.1	20.4%	0-10	25.2	2.5%
0-40	346.0	33.8%	10-20	72.7	7.1%
0-60	634.5	62.1%	20-30	111.2	10.9%
60-90	286.4	28.0%	30-40	137.0	13.4%
70-100	208.5	20.4%	40-50	147.0	14.4%
90-120	89.4	8.7%	50-60	141.5	13.8%
0-90	920.9	90.1%	60-70	122.8	12.0%
90-180	101.5	9.9%	70-80	96.1	9.4%
0-180	1,022.3	100.0%	80-90	67.5	6.6%
			90-100	44.9	4.4%
			100-110	28.3	2.8%
			110-120	16.2	1.6%
			120-130	8.0	0.8%
			130-140	3.2	0.3%
			140-150	0.8	0.1%
			150-160	0.0	0.0%
			160-170	0.0	0.0%
			170-180	0.0	0.0%

EQUIPMENT LIST

REPORT NO. 104393027CRT-047

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	LSI High Speed Mirror Goniophotometer	6440	---	5/14/2021	8/14/2021
2	Elgar AC Power Supply	CW1251	---	VBU	VBU
3	Yokogawa Power Analyzer	WT210	E464	5/11/2021	5/11/2022
4	Traceable Hygrothermometer	4800	L204	2/21/2021	2/21/2022
5	Sorenson DC Power Supply	XG 150-10	---	VBU	VBU
6	Omega Thermometer	DPi8-C24	M263	3/23/2021	3/23/2022
7	Bosch Distance Laser	Pro GLM 20	L211	3/3/2021	3/3/2022
8	M-D Building Products Digital Level	Smart Tool	L112	5/26/2021	5/26/2022

REVISION HISTORY

#	Revision Date	Updated By	Reviewed By	Description of Change
---	None	---	---	---
---	---	---	---	---
---	---	---	---	---