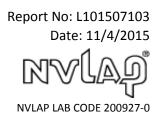
LIGHT LABORATORY INC. 8165 E Kaiser Blvd. Anaheim, CA 92808 p. 714.282.2270 f. 714.676.5558



| Report No: | L101507103 |
|---------------|--|
| Prepared For: | Tempo Industries 1961 McGAw Avenue, Irvine , CA |
| Model Number: | C3R00-12-2103-20DP35S-LG |
| Test: | Photometric/Electrical Test |

Standards Used:Appropriate part or all test guidelines were used for test performed:IESNA LM79: 2008Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting ProductsANSI NEMA ANSLG C78.377: 2008Specification of the Chromaticity of Solid State Lighting ProductsANSI C82.77:2002:Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Catalog number is C3R00-12-2103-20DP35S-LG. Received in working and undamaged condition. No modifications were necessary.

Testing Condition: Fixture is tested with no special conditions.

| Sample Arrival Date: | 10/28/15 | | |
|----------------------|----------|---|---------|
| Date of Tests: | 10/30/15 | - | 11/4/15 |

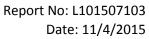
Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

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-S1 | 11/10/15 |
| Xitron Power Analyzer | 2801 | MT-EL02-1 | 12/9/15 |
| BK Precision DC Power Supply | 1747 | PSDC-04 | 01/08/16 |
| Fluke Digital Thermometer | 52k/J | MT-TP02-GC | 01/05/16 |
| 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 |

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

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| Test Summary | |
|-------------------------------|--------------------------|
| Manufacturer: | Tempo Industries |
| Model Number: | C3R00-12-2103-20DP35S-LG |
| Driver Model Number: | N/A |
| Total Lumens: | 41.76 |
| Input Voltage (VDC): | 24.00 |
| Input Current (Amp): | 0.18 |
| Input Power (W): | 0.43 |
| Input Power Factor: | 1.00 |
| Current ATHD @ 120V(%): | N/A |
| Current ATHD @ 277V(%): | N/A |
| Efficacy: | 97 |
| Ambient Temperature (°C): | 25.0 |
| Stabilization Time (Hours): | 0:35 |
| Total Operating Time (Hours): | 1:05 |
| Off State Power(W): | 0.00 |

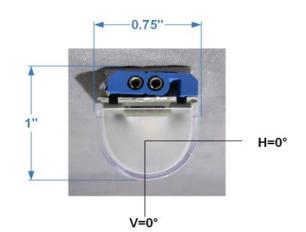




FIG.1 LUMINAIRE

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.



Report No: L101507103 Date: 11/4/2015

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.

Report Prepared by :

Keyur Patel

Test Report Released by:

UMP

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

Jeff Ahn Engineering Manager

Test Report Reviewed by:

enella

Steve Kang Quality Assurance

*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

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Photometric Test Report

IES INDOOR REPORT PHOTOMETRIC FILENAME : L101507103.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002 [TEST] L101507103 [TESTLAB] LIGHT LABORATORY, INC. [ISSUEDATE] 11/4/2015 [MANUFAC] TEMPO INDUSTRIES [LUMCAT] C3R00-12-2103-20DP35S-LG [LUMINAIRE] Rigid LED Linear Accent Lighting [MORE] SIZE: 0.75"L. X 3.25"W. X 1"H. [LAMPPOSITION] 0,0 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS. [POWER SUPPLY] 24VDC CONSTANT VOLTAGE SOURCE [_INPUT] 24VDC, 0.43W [_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| Lumens Per Lamp Total Lamp Lumens | N.A. (absolute) N.A. (absolute) |
|--------------------------------------|------------------------------------|
| Luminaire Lumens | 42 |
| | 42 N.A. |
| Total Luminaire Efficiency | |
| Luminaire Efficacy Rating (LER) | 97 |
| Total Luminaire Watts | 0.43 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.48 |
| Spacing Criterion (90-270) | 1.34 |
| Spacing Criterion (Diagonal) | 1.56 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.06 ft |
| Luminous Width (90-270) | 0.25 ft |
| Luminous Height | 0.04 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In | Average | Average | Average |
|----------|---------|---------|---------|
| Degrees | 0-Deg | 45-Deg | 90-Deg |
| 45 | 4483 | 4306 | 5314 |
| 55 | 4444 | 4026 | 5576 |
| 65 | 4371 | 3741 | 5305 |
| 75 | 4288 | 3395 | 5203 |
| 85 | 4256 | 3213 | 3489 |

CANDELA TABULATION

| 0 5 10 | <u>0.0</u> 8.06 8.06 8.06 | <u>22.5</u> 8.06 8.06 8.06 | <u>45.0</u> 8.06 8.06 8.01 | 67.5 8.06 8.06 7.97 | <u>90.0</u> 8.06 8.06 7.97 |
|--------------|------------------------------------|-------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| 15 | 8.06 | 8.06 | 7.97 | 7.88 | 7.80 |
| 20 | 8.06 | 8.01 | 7.88 | 7.71 | 7.71 |
| 25 | 7.97 | 7.97 | 7.76 | 7.63 | 7.54 |
| 30 | 7.97 | 7.80 | 7.54 | 7.46 | 7.28 |
| 35 | 7.80 | 7.67 | 7.37 | 7.16 | 6.94 |
| 40 45 | 7.63 7.37 | 7.46 7.20 | 7.03 6.73 | 6.77 6.34 | 6.60 6.08 |
| 45 50 | 7.20 | 6.86 | 6.34 | 5.83 | 5.66 |
| 50 55 | 6.94 | 6.51 | 5.91 | 5.23 | 5.48 |
| 60 | 6.60 | 6.17 | 5.48 | 4.88 | 4.97 |
| 65 | 6.26 | 5.83 | 4.97 | 4.37 | 4.20 |
| 70 | 5.83 | 5.31 | 4.46 | 3.73 | 3.77 |
| 75 | 5.40 | 4.93 | 3.90 | 3.04 | 3.00 |
| 80 | 4.97 | 4.46 | 3.43 | 2.40 | 2.14 |
| 85 | 4.46 | 4.03 | 3.00 | 1.89 | 1.20 |
| 90 | 4.03 | 3.64 | 2.74 | 1.63 | 0.51 |
| 95 | 3.51 | 3.21 | 2.40 | 1.46 | 0.00 |
| 100 | 3.17 | 2.91 | 2.19 | 1.33 | 0.00 |
| 105 | 2.83 | 2.57 | 1.97 | 1.20 | 0.00 |
| 110 | 2.49 | 2.36 | 1.71 | 1.03 | 0.00 |
| 115 120 | 2.14 1.89 | 2.06 1.71 | 1.50 1.29 | 0.90 0.73 | 0.00 |
| 120 | 1.69 | 1.71 | 1.29 | 0.73 | 0.00 0.00 |
| 130 | 1.03 | 1.20 | 0.94 | 0.30 | 0.00 |
| 135 | 1.11 | 1.03 | 0.77 | 0.26 | 0.00 |
| 140 | 0.86 | 0.81 | 0.51 | 0.17 | 0.00 |
| 145 | 0.69 | 0.60 | 0.39 | 0.17 | 0.00 |
| 150 | 0.34 | 0.39 | 0.30 | 0.04 | 0.00 |
| 155 | 0.34 | 0.30 | 0.17 | 0.00 | 0.00 |
| 160 | 0.17 | 0.17 | 0.04 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 170 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 3.02 | N.A. | 7.20 |
| 0-30 | 6.61 | N.A. | 15.80 |
| 0-40 | 11.23 | N.A. | 26.90 |
| 0-60 | 21.80 | N.A. | 52.20 |
| 0-80 | 31.09 | N.A. | 74.50 |
| 0-90 | 34.34 | N.A. | 82.20 |
| 10-90 | 33.57 | N.A. | 80.40 |
| 20-40 | 8.21 | N.A. | 19.70 |
| 20-50 | 13.43 | N.A. | 32.20 |
| 40-70 | 15.61 | N.A. | 37.40 |
| 60-80 | 9.29 | N.A. | 22.20 |
| 70-80 | 4.25 | N.A. | 10.20 |
| 80-90 | 3.25 | N.A. | 7.80 |
| 90-110 | 4.35 | N.A. | 10.40 |
| 90-120 | 5.72 | N.A. | 13.70 |
| 90-130 | 6.61 | N.A. | 15.80 |
| 90-150 | 7.34 | N.A. | 17.60 |
| 90-180 | 7.42 | N.A. | 17.80 |
| 110-180 | 3.07 | N.A. | 7.40 |
| 0-180 | 41.76 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

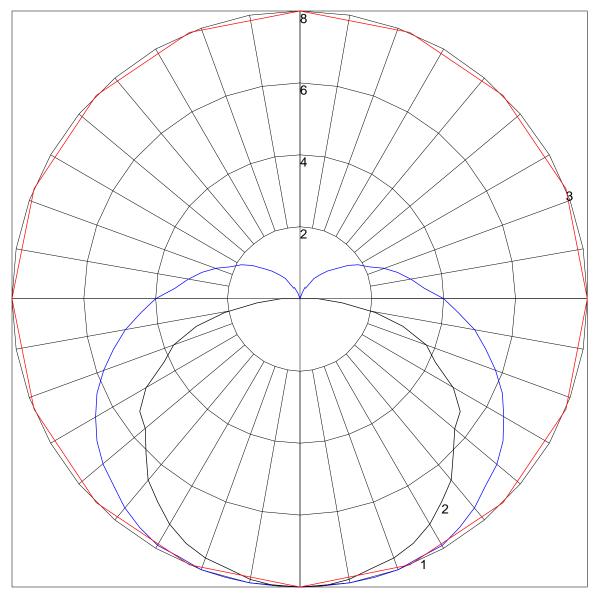
| Zone | Lumens |
|---------|--------|
| 0-10 | 0.77 |
| 10-20 | 2.25 |
| 20-30 | 3.59 |
| 30-40 | 4.63 |
| 40-50 | 5.21 |
| 50-60 | 5.35 |
| 60-70 | 5.05 |
| 70-80 | 4.25 |
| 80-90 | 3.25 |
| 90-100 | 2.45 |
| 100-110 | 1.90 |
| 110-120 | 1.37 |
| 120-130 | 0.89 |
| 130-140 | 0.50 |
| 140-150 | 0.23 |
| 150-160 | 0.07 |
| 160-170 | 0.01 |
| 170-180 | 0.00 |

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 5 61 2 48 2 39 5 33 0 28 6 24 3 21 0 18 8 16 |
|--|--|

POLAR GRAPH



Maximum Candela = 8.06 Located At Horizontal Angle = 0, Vertical Angle = 0 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) # 2 - Vertical Plane Through Horizontal Angles (90 - 270) # 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)