

Bid Request Number 5950
Title Floodlights With Mounts
Description
Bid Type Quote
Open Date 11/19/2018 03:00:28 PM (CT)
Close Date 11/27/2018 11:00:00 PM (CT)

Organization Lincoln Purchasing
Bid Creator Sharon Mulder Asst Purchasing Agent
Email smulder@lincoln.ne.gov
Phone (402) 441-7428 x
Fax (402) 441-6513 x

Responding Suppliers

Name	City	State	Response Submitted	Lines Responded	Response Total
TraStar, Inc.	Richardson	TX	11/27/2018 11:59:25 AM	2	\$6,160.00
Sebek Lighting & Electronics	Lincoln	NE	11/27/2018 11:32:43 AM	1	\$9,720.00
Bell Electrical Supply Co., Inc.	Woodside	NY	11/27/2018 11:49:34 AM	2	\$12,200.00
Graybar Electric	Lncoln	NE	11/20/2018 02:35:12 PM	2	\$13,186.00
Midwest Electrical Controls, LL	Omaha	NE	11/26/2018 05:25:38 PM	2	\$17,600.00

Response Notes

Supplier	Notes
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Graybar Electric Pricing is good until 12/27/18. Atlas has announced a price increase after Dec 27th. Any releases after 12/27 will be subject to the price increase.

Midwest Electrical Controls, Sharon, My name is wrong in above user profile. Dr. is not an appropriate title?

Line Items

Line 1					Atlas	PFXL2G300LED	Optic Floodlights	
<u>Name</u>	<u>QTY</u>	<u>UOM</u>	<u>Unit Price</u>	<u>Extended</u>	<u>Mfgr</u>	<u>MfgNo</u>	<u>Alternate Specification</u>	<u>Note to Buyer</u>
TraStar, Inc.	20	EA	\$308.00	\$6,160.00				
Sebek Lighting & Electronics	20	EA	\$486.00	\$9,720.00				
Bell Electrical Supply Co., Inc.	20	EA	\$610.00	\$12,200.00				This price includes the mount
Graybar Electric	20	EA	\$659.30	\$13,186.00				
Midwest Electrical Controls, LLC.	20	EA	\$880.00	\$17,600.00				Atlas optical flood light assembly, 35,380 Lumens, 300 Watt, High Efficiency 130-277, dimming 0 – 10 volt, Atlas PN PFXL2G300LED with Trunnion mounted. Reference quotation #MEC4113 and Atlas specifications PFXL2G300LED attached

Line 2					Atlas	Trunnion	Mounting Frames	
<u>Name</u>	<u>QTY</u>	<u>UOM</u>	<u>Unit Price</u>	<u>Extended</u>	<u>Mfgr</u>	<u>MfgNo</u>	<u>Alternate Specification</u>	<u>Note to Buyer</u>
TraStar, Inc.	20	EA	\$0.00	\$0.00				
Midwest Electrical Controls, LLC.	20	EA	\$0.00	\$0.00				
Sebek Lighting & Electronics	20	EA	No Bid					
Bell Electrical Supply Co., Inc.	20	EA	\$0.00	\$0.00				
Graybar Electric	20	EA	\$0.00	\$0.00				

Manufacturer and Model (Required)

TRASTAR, INC. JXM-ST-A5L
Ileding Lighting - RG-A5FL300W-50K

Atlas PFXL2G300LED
Atlas PFXL2G300LED

Reference attachment PFXL2G300LED

Manufacturer and Model (Required)

TraStar, Inc. - Mounting is included with
flood lights.

Trunnion Mount, Furnished assembled to
item 1 = 16" wide x 17'07" high x 12.21"
deep, cost covered in assembly cost.

Atlas Trunnion
Trunnion comes with the fixture

Header Attributes

Supplier Name	5 (Required) Delivery State number of delivery days after receipt of order (ARO). FOB to the City/County at the location specified with all transportation charges paid.	6 (Required) Contact Name of person submitting this bid:
Bell Electrical Supply Co., Inc. Graybar Electric Midwest Electrical Controls, LLC. Sebek Lighting & Electronics TraStar, Inc.	5 Days Appx 1-2wks aro. 35 60-75 days from date of order 45-60 days	Anthony Baek Eric Angell Donald E. Reiner Rick Sebek Sandra Godoy

City of Lincoln/Lancaster County (Lincoln Purchasing) Supplier Response

Bid Information		Contact Information		Ship to Information	
Bid Creator	Sharon Mulder Asst Purchasing Agent	Address	Purchasing 440 S. 8th St. Lincoln, NE 68508	Address	Lancaster County Corrections 3801 West O Street Lincoln, NE 68528
Email	smulder@lincoln.ne.gov	Contact	Sharon Mulder Asst Purchasing Agent	Contact	
Phone	(402) 441-7428 x				
Fax	(402) 441-6513 x				
Bid Number	5950	Department		Department	
Title	Floodlights With Mounts	Building		Building	
Bid Type	Quote		Suite 200		
Issue Date	11/19/2018 03:00 PM (CT)	Floor/Room		Floor/Room	
Close Date	11/27/2018 11:00:00 PM (CT)	Telephone	(402) 441-7428 x	Telephone	
		Fax	(402) 441-6513 x	Fax	
		Email	smulder@lincoln.ne.gov	Email	

Supplier Information

Company TraStar, Inc.
 Address 860 N. Dorothy Dr., Suite 600
 Richardson, TX 75081-2770
 Contact Elaine Davis
 Department
 Building
 Floor/Room
 Telephone (972) 480-0888
 Fax (972) 480-8884
 Email edavis@trastarusa.com
 Submitted 11/27/2018 11:59:25 AM (CT)
 Total \$6,160.00

By submitting your response, you certify that you are authorized to represent and bind your company.

Signature Sandra Godoy

Email sgodoy@trastarusa.com

Supplier Notes

Bid Notes

Bid Activities

Bid Messages

Bid Attributes

Please review the following and respond where necessary

#	Name	Note	Response
1	Instructions to Bidders	I acknowledge reading and understanding the Instructions to Bidders.	Yes
2	Specifications	I acknowledge reading and understanding the specifications.	Yes
3	Sample Contract	I acknowledge reading and understanding the sample contract.	Yes
4	Quantities	I acknowledge that the quantities listed for each line item are an estimated amount. The City/County does not guarantee any dollar amount or order quantities for the term of the contract.	Y
5	Delivery	State number of delivery days after receipt of order (ARO). FOB to the City/County at the location specified with all transportation charges paid.	45-60 days
6	Contact	Name of person submitting this bid:	Sandra Godoy
7	Tax Exempt Certification Forms	Materials being purchased in this bid are tax exempt and unit prices are reflected as such. A Purchasing Agent Appointment form and a Exempt Sales Certificate form shall be issued with contract documents. (Note: State Tax Law does not provide for sales tax exemption for proprietary functions for government, thereby excluding the purchases of pipes to be installed in water lines and purchase of water meters.)	Yes
8	U.S. Citizenship Attestation	<p>Is your company legally considered an Individual or Sole Proprietor: YES or NO</p> <p>As a Vendor who is legally considered an individual or a Sole Proprietor I hereby understand and agree to comply with the requirements of the United States Citizenship Attestation Form, available at: http://www.sos.ne.gov/business/notary/citizenforminfo.html</p> <p>All awarded Vendors who are legally considered an Individual or a Sole Proprietor must complete the form and submit it with contract documents at time of execution.</p> <p>If a Vendor indicates on such attestation form that he or she is a qualified alien, the Vendor agrees to provide the US Citizenship and Immigration Services documentation required to verify the Vendor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.</p> <p>Vendor further understands and agrees that lawful presence in the United States is required and the Vendor may be disqualified or the Contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. 4-108.</p>	YES
9	Electronic Signature	Please check here for your electronic signature.	Yes

Line Items

#	Qty	UOM	Description	Response
1	20	EA	Optic Floodlights	\$308.00

Manufacturer: Atlas Manufacturer #: PFXL2G300LED

Item Notes:

Supplier Notes:

Item Attributes: Please review the following and respond where necessary

#	Name	Note	Response
1	Manufacturer and Model	Please provide manufacturer and model bidding.	TRASTAR, INC. JXM-ST-A5L

2	20	EA	Mounting Frames	\$0.00
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Manufacturer: Atlas Manufacturer #: Trunnion

Item Notes: Size: 16" W x 17.07" H x 12.21" D

Supplier Notes:

Item Attributes: Please review the following and respond where necessary

#	Name	Note	Response
1	Manufacturer and Model	Please provide manufacturer and model bidding.	TraStar, Inc. - Mounting is included with flood lights.

Response Total: \$6,160.00

TECHNICAL DATA

POWER CONSUMPTION – Saves 50-70%.

EXPECTED LED LIFE – 100,000 hrs.

LED TECHNOLOGY – Latest technology on Hi-Flux LEDs.
Minimal CRI of 70.

OPTICS – Special optical lens design to maximize light output & uniformity. Each lens allows the fixture to generate different lighting patterns. Equipped with diffusing lens to minimize glare.

OPERATING TEMPERATURE – -40 C° ~ +70 C°.

HOUSING – Die cast aluminum housing with powder coat finish.
Tempered glass. Single, self-contained device, not requiring on-site assembly for installation. Watertight IP66.

THERMAL MANAGEMENT – Heat sink fins are incorporated into the external design of the fixture, allowing it to evenly dispense heat.

MOUNTING – Easy yoke mounting hardware for indoor/outdoor lighting on parking garage/lots, buildings, storage sites, etc.

ELECTRICAL FEATURES – Comes with a variable voltage power supply 120-277VAC. Also available with a step-down transformer built onto the unit to accommodate 480VAC. ETL listed conforming to UL STD 1598.

LUMINAIRE EFFICIENCY – ≥ 115 lm/w.

COLOR CORRELATED TEMPERATURE (CCT) – 4,000K to 6,000K.

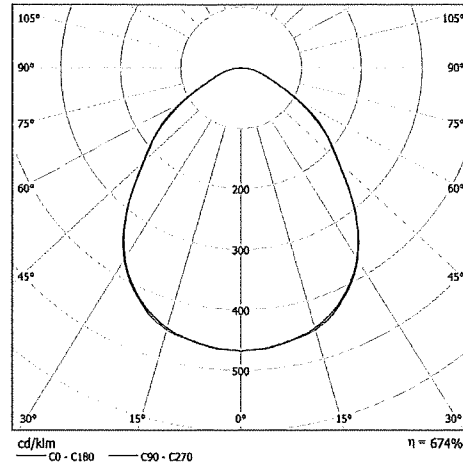


Model Number:	JXM-ST-A1	JXM-ST-A2	JXM-ST-A3	JXM-ST-A4	JXM-ST-A5	JXM-ST-A5L
Wattage Level:	35W	65W	130W	185W	240W	300W
Lumen Output:	≈ 4000	≈ 7500	≈ 15000	≈ 21000	≈ 27000	≈ 35000
CRI:	> 70	> 70	> 70	> 70	> 70	> 70
Power Factor:	0.9	0.9	0.9	0.9	0.9	0.9

Any additional technical information or sales support regarding these and other LED Products, please contact us:

DISTRIBUTION:

Typical Distribution Pattern



ORDERING/OPTIONS

Example: **JXM-ST Flood Light**

PREFIX		SERIES		WATTAGE LEVEL		CCT	
JXM	DURALIGHT LED	ST	Lighting Series	A1	≈ 35W	3K	3000K (± 300)
				A2	≈ 65W	4K	4000K (± 300) (Standard CCT)
				A3	≈ 130W	5K	5000K (± 300)
				A4	≈ 185W	6K	6000K (± 300)
				A5	≈ 240W		
				A5L	≈ 300W		
VOLTAGE		DISTRIBUTION		FINISH		OPTIONS	
120	120V – 277V (Standard Driver)	2	Type II	GR	Gray Housing	L	Utility Label
480	480V	3	Type III	BK	Black ²		
		4	Type IV	BZ	Bronze ²		
		5	Type V	DG	Dark Green ²		
				SP	Special Color ² (Provide Chip)		

- NOTE:
1. Fixtures come with a Standard 7-Pin Receptacle.
 2. Color other than the standard Gray may incur an extra charge. Please contact us for additional information.

TRASTAR, INC.

860 N. DOROTHY DRIVE, SUITE 600, RICHARDSON, TX 75081

PH: (972) 480-0888 | FX: (972) 480-8884

www.trastarusa.com

LM-80 Test Report NVSL219B

Issue Date:	November 17, 2014	Revision Date:	-
Test Initiation Date:	August 4, 2011	Test Completion Date:	October 5, 2012
Test Duration:	10,000 hours	Report Number:	SQETMLH17101

Customer Information:

Company Name: Nichia Corporation
 Address: 491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima, 774-8601, JAPAN

Description of Test Samples:

Classification: LED Package
 Model Name: Warm White LED
 Model Number: NVSL219B (Nominal CCT: 2700 K)

Test Summary:

Data Set	Case Temperature [T _s]	Ambient Temperature [T _A]	Drive Current [I _F]	Lumen Maintenance at 10,000 hours	Chromaticity Shift (Δu'v') at 10,000 hours	TM-21 Projection L ₇₀ (10K)
1	55 °C	> 50 °C	700 mA	99.3 %	0.0022	> 60100 hours
2	55 °C	> 50 °C	1200 mA	97.9 %	0.0025	> 60100 hours
3	85 °C	> 80 °C	700 mA	97.5 %	0.0025	> 60000 hours
4	85 °C	> 80 °C	1200 mA	94.8 %	0.0031	> 60000 hours
5	105 °C	> 100 °C	700 mA	95.5 %	0.0027	> 60100 hours
6	105 °C	> 100 °C	1000 mA	93.7 %	0.0035	> 60100 hours



Approved Signatory:



Hitoshi TOHYAMA, Lab Manager

Nichia Corporation LED Testing Laboratory
 1-1, Tatsumi-Cho, Anan-Shi, TOKUSHIMA 774-0001, JAPAN

Applicable Model Numbers:

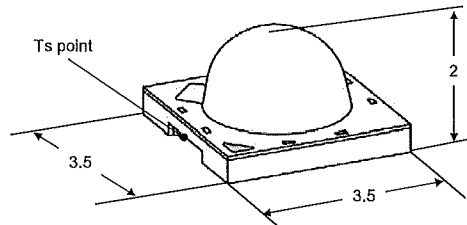
This LM-80 test report applies to the following models:

Series	Model Number	Case Temperature [°C]	Forward Current [mA]	Nominal CCT [K]	Data Set Number
219	NVSW219B	55	700	≥ 2700	1
		55	1200	≥ 2700	2
		85	700	≥ 2700	3
		85	1200	≥ 2700	4
		105	700	≥ 2700	5
		105	1000	≥ 2700	6
219	NVSL219B-V1	55	700	≥ 2700	1
		55	1200	≥ 2700	2
		85	700	≥ 2700	3
		85	1200	≥ 2700	4
		105	700	≥ 2700	5
		105	1000	≥ 2700	6
219	NVSW219B-V1	55	700	≥ 2700	1
		55	1200	≥ 2700	2
		85	700	≥ 2700	3
		85	1200	≥ 2700	4
		105	700	≥ 2700	5
		105	1000	≥ 2700	6

IES LM-80-08 Test Report Requirement :

1. **Number of LED light sources tested**
See tables.
2. **Description of LED light sources**
See Description of Test Samples
3. **Description of auxiliary equipment**
Active cooling life test system
Consisting of small boxes, in which each box contains a reliability test board, and a water-cooled heat sink or a heater to control device temperature.
LED Tester
Consisting of an integrating sphere, a programmable current-source meter, and a spectroradiometer.
4. **Operating cycle**
Constant direct current (DC).
5. **Ambient conditions including airflow, temperature, and relative humidity**
Ambient Temperature (T_A) : See tables
Ambient temperature is the temperature of the air at a distance of 1.5 mm above the reliability test board.
Air flow : < 0.1 m/s
Relative Humidity : < 45 %

6. **Case temperature (test point temperature)**
See tables.
For the case temperature (T_S) measurement point, see the figure below.

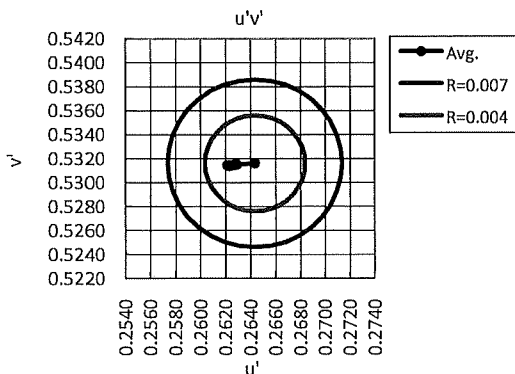
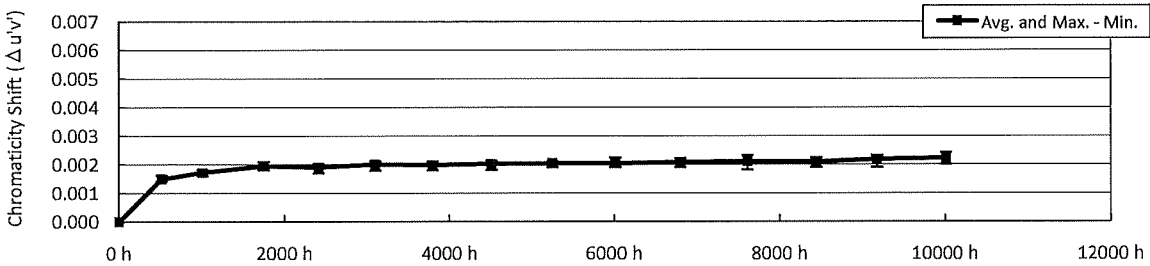
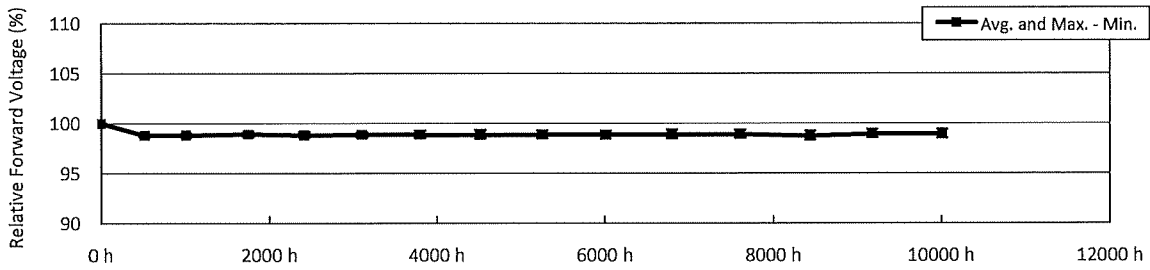
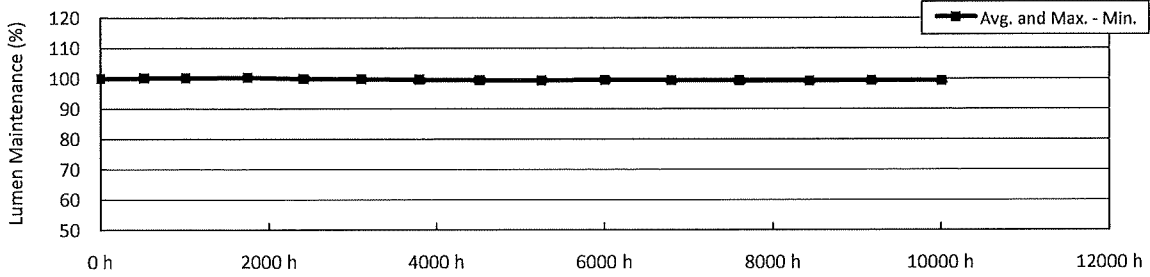


7. **Drive current of the LED light sources during lifetime test**
See tables.
8. **Initial luminous flux and forward voltage at photometric measurement current**
See tables.
9. **Lumen maintenance data for each individual LED light source along with median value, standard deviation, minimum and maximum lumen maintenance value for all of the LED light sources.**
See tables.
10. **Observation of LED light sources failures including the failure conditions and time of failure.**
No failure observed
11. **LED light source monitoring interval**
See tables.
12. **Photometric measurement uncertainty**
Flux measurement: 4.8 % ($k=2$)
Lumen maintenance: 1.8 % ($k=2$)
13. **Chromaticity shift reported over the measurement time.**
See tables.

Data Set 1 : 55 °C, 700 mA

Actual Case Temperature [T _s]	57.0 °C
Actual Ambient Temperature [T _A]	56.5 °C
Drive Current [I _F]	700 mA
Measurement Current	700 mA

NOTES:
T_s and T_A were measured during initial setup.



Data Set 1 : 55 °C, 700 mA

Actual Case Temperature [T _s]	57.0 °C
Actual Ambient Temperature [T _A]	56.5 °C
Drive Current [I _F]	700 mA
Measurement Current	700 mA

NOTES:

 T_s and T_A were measured during initial setup.

TABLE 1-1
 Initial Characteristics

LED No.	Luminous flux	Forward voltage	CCT	CIE1931		CIE1976							
	Φ _v [lm]	V _F [V]	T _{CP} [K]	x	y	u'	v'						
1	195	3.22	2614	0.472	0.420	0.266	0.533						
2	195	3.25	2605	0.473	0.422	0.266	0.534						
3	192	3.27	2578	0.476	0.422	0.267	0.534						
4	191	3.25	2620	0.472	0.421	0.265	0.533						
5	189	3.25	2533	0.481	0.424	0.270	0.536						
6	197	3.24	2657	0.467	0.418	0.264	0.531						
7	197	3.25	2678	0.465	0.418	0.263	0.531						
8	194	3.28	2662	0.466	0.417	0.264	0.531						
9	196	3.32	2694	0.463	0.416	0.262	0.530						
10	197	3.28	2649	0.468	0.418	0.264	0.531						
11	196	3.24	2706	0.462	0.415	0.262	0.529						
12	199	3.22	2669	0.466	0.417	0.263	0.531						
13	197	3.24	2639	0.469	0.418	0.265	0.532						
14	194	3.23	2637	0.469	0.419	0.265	0.532						
15	192	3.21	2617	0.473	0.423	0.265	0.534						
16	198	3.27	2679	0.464	0.415	0.263	0.530						
17	196	3.25	2671	0.465	0.417	0.263	0.530						
18	195	3.26	2676	0.465	0.416	0.263	0.530						
19	198	3.26	2691	0.464	0.417	0.262	0.530						
20	196	3.25	2615	0.472	0.421	0.266	0.533						
21	195	3.22	2675	0.466	0.419	0.263	0.531						
22	195	3.27	2645	0.467	0.416	0.265	0.531						
23	197	3.30	2718	0.462	0.416	0.261	0.530						
24	196	3.24	2593	0.474	0.421	0.267	0.533						
n	24	24	24	24	24	24	24						
Avg.	195	3.25	2647	0.468	0.419	0.264	0.532						
Med.	196	3.25	2653	0.467	0.418	0.264	0.531						
σ	2.3	0.026	43.8	0.0048	0.0026	0.0020	0.0016						
Min.	189	3.21	2533	0.462	0.415	0.261	0.529						
Max.	199	3.32	2718	0.481	0.424	0.270	0.536						

Data Set 1 : 55 °C, 700 mA

Actual Case Temperature [T _s]	57.0 °C
Actual Ambient Temperature [T _A]	56.5 °C
Drive Current [I _F]	700 mA
Measurement Current	700 mA

NOTES:
T_s and T_A were measured during initial setup.

TABLE 1-2
Lumen Maintenance

LED No.	Lumen Maintenance % (Normalized to 100 % at 0 hours)														
	0 h	519 h	1013 h	1752 h	2417 h	3109 h	3798 h	4513 h	5251 h	6014 h	6797 h	7609 h	8443 h	9181 h	10012 h
1	100.0	100.3	100.4	100.5	99.8	100.2	99.9	99.9	99.8	99.9	99.6	99.7	99.4	99.7	99.6
2	100.0	100.2	100.1	100.3	100.0	100.1	100.0	99.4	99.5	99.7	99.6	99.5	99.3	99.6	99.4
3	100.0	100.6	100.2	100.6	100.5	100.0	100.1	99.4	99.4	99.7	99.5	99.6	99.3	99.5	99.4
4	100.0	100.7	100.5	100.6	100.3	99.7	99.8	99.3	99.3	99.5	99.3	99.4	99.1	99.3	99.1
5	100.0	100.4	100.3	100.4	99.7	99.4	99.3	99.1	99.1	99.3	99.1	99.1	98.8	98.7	98.9
6	100.0	100.3	100.3	100.4	99.6	99.9	99.7	99.7	99.6	99.7	99.3	99.4	99.1	99.4	99.2
7	100.0	100.0	100.0	100.2	99.5	99.7	99.6	99.4	99.3	99.0	99.3	99.2	98.9	99.2	99.1
8	100.0	100.1	100.0	100.3	99.9	100.0	99.7	99.3	99.3	99.5	99.5	99.5	99.3	99.6	99.4
9	100.0	100.6	100.6	100.8	100.7	100.1	100.0	99.8	99.7	99.8	99.8	99.9	99.6	99.9	99.7
10	100.0	100.3	100.2	100.3	100.0	99.5	99.4	99.2	99.1	99.2	99.2	98.5	99.0	99.3	99.1
11	100.0	100.3	100.2	100.1	99.6	99.2	99.2	99.2	99.1	99.2	99.0	99.0	98.8	99.1	98.9
12	100.0	100.6	100.5	100.7	100.1	100.3	100.1	100.2	100.1	100.3	99.8	99.9	99.5	99.8	99.7
13	100.0	100.1	100.1	100.3	99.7	99.9	99.9	99.7	99.5	99.6	99.5	99.4	99.2	99.5	99.3
14	100.0	99.7	100.4	100.5	100.3	100.2	100.0	99.7	99.5	99.7	99.8	99.5	99.6	100.0	99.9
15	100.0	99.7	100.4	100.4	100.4	99.9	99.7	99.5	99.4	99.5	99.6	99.7	99.4	99.6	99.5
16	100.0	100.1	100.1	100.2	100.0	99.7	98.7	99.3	99.1	99.4	99.4	99.4	99.1	99.0	99.1
17	100.0	99.8	99.7	100.0	99.5	99.2	99.1	99.0	98.9	99.0	98.8	98.8	98.6	98.7	98.7
18	100.0	100.2	100.1	100.3	99.7	99.9	100.0	99.9	99.2	99.1	99.5	99.2	99.2	99.5	99.4
19	100.0	100.1	100.0	100.1	99.6	99.8	99.9	99.6	99.5	99.7	99.5	99.4	99.2	99.5	99.4
20	100.0	100.1	100.1	100.0	99.9	99.9	99.7	99.4	99.3	99.6	99.5	99.5	99.3	99.6	99.4
21	100.0	100.1	100.4	100.4	100.3	100.0	99.8	99.5	99.5	99.7	99.6	99.6	99.5	99.6	99.6
22	100.0	100.1	100.0	100.1	99.9	99.3	99.2	98.8	99.1	99.3	99.2	99.2	98.9	99.0	99.0
23	100.0	100.1	100.0	100.1	99.8	99.4	99.3	99.2	99.2	99.5	99.2	99.2	98.9	99.2	99.0
24	100.0	100.3	100.1	100.2	99.4	99.8	99.9	99.7	99.7	99.8	99.5	99.5	99.3	99.6	99.4
n	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Avg.	100.0	100.2	100.2	100.3	99.9	99.8	99.7	99.5	99.4	99.5	99.4	99.4	99.2	99.4	99.3
Med.	100.0	100.2	100.2	100.3	99.9	99.9	99.7	99.4	99.4	99.6	99.5	99.4	99.2	99.5	99.4
σ	0.00	0.27	0.21	0.21	0.34	0.32	0.36	0.32	0.28	0.32	0.25	0.32	0.27	0.34	0.29
Min.	100.0	99.7	99.7	100.0	99.4	99.2	98.7	98.8	98.9	99.0	98.8	98.5	98.6	98.7	98.7
Max.	100.0	100.7	100.6	100.8	100.7	100.3	100.1	100.2	100.1	100.3	99.8	99.9	99.6	100.0	99.9

TM-21 Projection

Time	4513 h	5251 h	6014 h	6797 h	7609 h	8443 h	9181 h	10012 h							
ln(Avg.)	-0.0053	-0.0063	-0.0046	-0.0058	-0.0062	-0.0083	-0.0059	-0.0070							

Test duration used	4513 h	to	10012 h
B	0.9962		
α	3.2532E-07		
R ²	0.3325		
Calculated L ₇₀ (10K)	1080000	hours	
Reported L ₇₀ (10K)	> 60100	hours	

Curve-fit equation:
 $\Phi(t) = B \exp(-\alpha t)$
 Lumen maintenance life equation:
 $L_{70} = \ln(B/0.7) / \alpha$



TM-21 Report

Table 1: Report at each LM-80 Test Condition

Description of LED Light Source Tested (manufacturer, model, catalog number)		NICHIA, Nichia Chip Type White LED, NVSL219A-H3			
Test Condition 1 - 55°C Case Temp		Test Condition 2 - 85°C Case Temp		Test Condition 3 - 105°C Case Temp	
Sample size	25	Sample size	25	Sample size	25
Number of failures	0	Number of failures	0	Number of failures	0
DUT drive current used in the test (mA)	1000	DUT drive current used in the test (mA)	1000	DUT drive current used in the test (mA)	1000
Test duration (hours)	10,000	Test duration (hours)	10,000	Test duration (hours)	10,000
Test duration used for projection (hour to hour)	5,234 - 10,045	Test duration used for projection (hour to hour)	5,234 - 10,045	Test duration used for projection (hour to hour)	5,234 - 10,045
Tested case temperature (°C)	55	Tested case temperature (°C)	85	Tested case temperature (°C)	105
α	1.738E-06	α	2.546E-06	α	1.722E-06
B	0.989	B	0.982	B	0.976
Calculated L70(10k) (hours)	199,000	Calculated L70(10k) (hours)	133,000	Calculated L70(10k) (hours)	193,000
Reported L70(10k) (hours)	>60000	Reported L70(10k) (hours)	>60000	Reported L70(10k) (hours)	>60000

**Table 2: Interpolation Report
(projection based on *in-situ* temperature entered)**

$T_{s,1}$ (°C)	55.00
$T_{s,1}$ (K)	328.15
α_1	1.738E-06
B_1	0.989
$T_{s,2}$ (°C)	85.00
$T_{s,2}$ (K)	358.15
α_2	2.546E-06
B_2	0.982
E_a/k_b	1.50E+03
A	1.657E-04
B_0	0.986
$T_{s,i}$ (°C)	69.30
$T_{s,i}$ (K)	342.45
α_i	2.102E-06
Projected L70(10k) at 69.3°C (hours)	163,000
Reported L70(10k) at 69.3°C (hours)	>60000

Report Generated By: Corey Gentry	Notes: Duralight LED Area Light, JXM-ST-A5
Company: TraStar, Inc.	
11/27/2018	

Sharon R. Mulder

From: David M. Scharf
Sent: Tuesday, December 18, 2018 1:35 PM
To: Sharon R. Mulder
Subject: RE: Floodlights Results

Sharon,

My recommendation is to go with Trastar JXM-ST-A5L. I was wondering if we could order 25 instead of the 20 on the quote? Let me know how to proceed from this point. Thank you for helping with this endeavor.

Dave Scharf
Facility Manager
Lancaster County Adult Detention Facility
402-441-1972 (work)
402-450-5671 (Cell)

From: Sharon R. Mulder <SMulder@lincoln.ne.gov>
Sent: Tuesday, December 18, 2018 9:31 AM
To: David M. Scharf <DScharf@lancaster.ne.gov>
Subject: RE: Floodlights Results

Hi Dave,
Do you have an award recommendation on this quote?
Thanks,
Sharon

From: David M. Scharf
Sent: Wednesday, November 28, 2018 10:36 AM
To: Sharon R. Mulder <SMulder@lincoln.ne.gov>
Subject: RE: Floodlights Results

Sharon,

Can you get me the dimensions of the light that was low bid? Just need to know how big this is in comparison to the lights that are one the building now. Thanks.

Dave Scharf
Facility Manager
Lancaster County Adult Detention Facility
402-441-1972 (work)
402-450-5671 (Cell)

From: Sharon R. Mulder <SMulder@lincoln.ne.gov>
Sent: Wednesday, November 28, 2018 8:01 AM
To: David M. Scharf <DScharf@lancaster.ne.gov>
Subject: Floodlights Results

Hi Dave,

Sharon R. Mulder

From: Sandy Godoy <sgodoy@trastarusa.com>
Sent: Thursday, December 20, 2018 2:56 PM
To: Sharon R. Mulder
Cc: 'Margaret Chavira'; 'Peter Tian'; Corey Gentry; sherwing@trastarusa.com
Subject: Bid# 5950

Hello Sharon,

The pricing will stay the same for a quantity of 25 for the above bid number.

Thank you.

Sincerely,

Sandra Godoy

TraStar Inc.



860 N. Dorothy Drive #600, Richardson, Texas 75081

Phone: (972) 480-0888 | Fax: (972) 480-8884

E-mail: sgodoy@trastarusa.com | Website: www.trastarusa.com