ATTACHMENT A
SOLE SOURCE FACILITY JUSTIFICATION TRANSMITTAL

Public Contract Code section 3400 provides, in pertinent part, that:

"(a) The Legislature finds and declares that it is the intent of this section to encourage contractors and manufacturers to develop and implement new and ingenious materials, products, and services that function as well, in all essential respects, as materials, products, and services that are required by a contract, but at a lower cost to taxpayers.

(b) No agency of the state, nor any political subdivision, municipal corporation, or district, nor any public officer or person charged with the letting of contracts for the construction, alteration, or repair of public works, shall draft or cause to be drafted specifications for bids, in connection with the construction, alteration, or repair of public works, (1) in a manner that limits the bidding, directly or indirectly, to any one specific concern, or (2) calling for a designated material, product, thing, or service by specific brand or trade name unless the specification is followed by the words "or equal" so that bidders may furnish any equal material, product, thing, or service. In applying this section, the specifying agency shall, if aware of an equal product manufactured in this state, name that product in the specification. Specifications shall provide a period of time prior to or after, or prior to and after, the award of the contract for submission of data substantiating a request for a substitution of "an equal" item. If no time period is specified, data may be submitted any time within 35 days after the award of the contract.

(c) Subdivision (b) is not applicable if the awarding authority, or its designee, makes a finding that is described in the invitation for bids or request for proposals that a particular material, product, thing, or service is designated by specific brand or trade name for any of the following purposes:

(2) In order to match other products in use on a particular public improvement either completed or in the course of completion."

Lithonia Interior Troffers

This is a sole source procurement because:

- ☑ This is a sole provider of items compatible with existing equipment or systems.
- ☐ This is a sole provider of factory-authorized warranty service.
- ☐ This is a sole provider of goods or services that perform a unique function in order to meet the specialized needs of the District. Please provide specific detail below.

Lithonia Interior Troffers fixtures are needed for consistency and capability with on hand parts inventory.

- ☑ There are overriding circumstances upon with the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Please provide specific detail below as to what those circumstances are, and why this sole source procurement would be in the best interest of the District.

This brand of interior lighting fixtures has been in use at the since 2015. The District has used them on all remodels and new buildings. The use of other types of ceiling grid light fixtures would be counter-productive to establishing uniformity and aesthetic consistency.

This is a restricted brand or trade name, and no substitutions are allowed because:

☑ The requested product is an integral repair part or accessory compatible with existing equipment or systems.

Existing Equipment/System: Lithonia Interior Troffers
Manufacturer/Model Number: Lithonia 2VTL Interior Troffers

☑ The District has standardized on the requested product, and use of another brand/model would require considerable time and funding to evaluate or implement. Please provide additional detail below.

☑ Please provide details below:

The need for consistency and capability with the planned centralized remote programming software is required.

Supplier or Contractor Information:

Lithonia Lighting
PO Box A
Conyers, GA 30012

RECOMMENDATION

Sufficient evidence has been provided upon which the Board can find that the exception found in Public Contract Code section 3400 (c) (2) applies to the identified product(s). Approve a finding to authorize use of the above stated exception for Interior Troffers in the MiraCosta Design Standards Manual for all the projects in the MM program. Require that said finding be included in all pertinent bid/proposal documents for those projects where such product(s) will be used.

SIGNATURE:

Tom Macias, Facilities Director — **Date** 9/14/18

Geoff Bachanas, PMO Director — **Date** 9/13/18

steinberg hart

ATTACHMENT B
SOLE SOURCE ARCHITECT/ENGINEERING JUSTIFICATION SUMMARY REPORT TRANSMITTAL

September 1, 2018

Re: Lithonia Interior Troffers

Within the Design & Construction Standards MiraCosta CCD has identified or designed various proprietary systems or products that meet specific District performance requirements, allow for seamless integration into existing systems, provide ease of maintenance, and afford a lower total cost of ownership. In these instances, the District is requesting that these systems and products shall be provided without substitution. The following Specification Section 26 51 00 is one that meets these special requirements.

Our experience working with other Colleges and Universities shows that single sources for some materials, products, equipment, and systems is a common approach to achieving best value.

We have reviewed the facility justification transmittal for the above-referenced item and believe that the District's sole-sourcing of this specification section meets the requirements for District's benefit as described above.

Sincerely,

Joe Sion
Associate Principal/Senior Manager

523 W 6th Street #245
Los Angeles CA 90014

MiraCosta College Design And Construction Standards

Item #9: Lithonia LED 2VTL Troffer

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — The VT Series Volumetric LED Troffer (VTL) combines the aesthetics and high performance with intelligent LED engines for applications such as offices, schools, retail locations and hospitals. High-efficacy light engines deliver long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable. Multiple lumen packages and driver options provide solutions for all your lighting applications. Featured nLight control system provides design flexibility and ease of installation and optimum energy savings.

CONSTRUCTION — Rugged, one-piece cold-rolled steel coated polyester, painted after fabrication with embossed facets. Impact-modified, single clear acrylic diffuser provides excellent shielding and wide distribution. End plates include integral T-bar clips. Fixture may be mounted and wired in continuous rows. Total fixture height is only 4-3/8".

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions, vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complementary luminous environment. Linear faceted reflector cavity softens and distributes light into the space while minimizing luminous contrast between the fixture and ceiling. Sloped end plates provide a smooth, luminous transition between fixture and ceiling while enhancing the perception of fixture depth.

High-performance diffuser provides LED concealment, even illumination across the diffuser and improved lumen-per-watt performance.

Now available with two different aesthetics including the standard Acrylic Linear Prismatic Diffuser (**ADP**) and the Acrylic Linear Prismatic Diffuser with Diffuser Trim Rings (**ADPT**).

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the VTL luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX (Passive infrared (PIR)) or MSDPDT7ADCX (PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 2 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is both a digital PIR occupancy sensor/automatic dimming photocell. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 3 for more details on the Integrated Smart Sensor.

INSTALLATION — Unique grid interfacing arrangement provides mounting into standard 1" and 9/16" tee bar or screw slot grids. 9/16" allows fixture trim to hang level with architectural ceiling tiles. Drywall ceiling adaptors available. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

VT Series Volumetric LED Troffer

2VTL

2' x 4' LED

C.E.C. TITLE 20 COMPLIANT · A+ CAPABLE · eldoLED · DLC PREMIUM · nLIGHT

Dimensions

All dimensions are inches (centimeters) unless otherwise specified.

Specifications

Length: 48 (122.0)

Width: 24 (61.0)

Depth: 4-3/8 (11.1)

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks when ordered with drivers marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

Sole Source Item #13 - Lithonia Interior Troffers

2VTL Volumetric Recessed Lighting 2'x4'

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2VTL4 40L ADPT EZ1 LP840 MSD7ADCX

2VTL4

Series	Air function	Lumens[1]	Diffuser	Voltage	Driver
2VTL4 2X4 VTL	(blank) Static	30L 3000 lumens	ADP Acrylic linear prismatic	(blank) MVOLT	EZ1 eldoLED dims to 1%, 0-10V
	H Heat removal	40L 4000 lumens	ADPT Acrylic linear prismatic with diffuser trim rings	347 347V[2]	EZB eldoLED dims to dark, 0-10V
		48L 4800 lumens			EDB eldoLED DALI[3]
		60L 6000 lumens			EXB eldoLED DMX/RDM[3]
		72L 7200 lumens			SLD Step-level dimming[3]
					EXA1 Dims to 1%, XPoint wireless enabled[4]
					EXAB Dims to dark, XPoint Wireless enabled[4]

Color temperature	Controls	Occupancy Control	Options
LP830 3000 K, 80 CRI	(blank) No nLight®	(blank) No sensor control	EL7L 700 lumen battery pack (non-CEC compliant)
LP835 3500 K, 80 CRI	N80 nLight® with 80% lumen management	**nLight Wired Networking**	EL14L 1400 lumen battery pack (non-CEC compliant)
LP840 4000 K, 80 CRI	N80EMG nLight® with 80% lumen management for use with generator supply EM power[5]	NES7 nLight® nES 7 PIR integral occupancy sensor[7,10]	EL14LSD 1400 lumen battery pack with self-diagnostic testing feature (non-CEC compliant)[12]
LP850 5000 K, 80 CRI	N100 nLight® without lumen management	NESPDT7 nLight® nES PDT 7 dual technology integral occupancy control[7,10]	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, CEC compliant
	N100EMG nLight® without lumen management for use with generator supply EM power[5]	NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[7,10]	CP Chicago plenum
	NLTAIR nLight AIR enabled[6]	NESPDT7ADCX nLight® nES 7 PDT 7 dual technology intergral occupancy sensor with automatic dimming photocell[7,10]	
		Individual Control	
		MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell[3,7,11]	
		MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell[3,7,11]	
		Xpoint Wireless	
		XADS7 XPoint™ wireless controller and micro 360° PIR occupancy and photocell sensor[3,4,9]	
		nLight Wireless Networking	
		RES7N nLight® AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities[7,10]	
		nLight Wireless Zone	
		RES7Z nLight® AIR PIR integral occupancy sensor with automatic dimming photocell for zone control[7,10]	

Accessories: *Order as separate catalog number.*

2VT4 F916	Trim to adjust fixture mounting flush with 9/16" T-bar; for 2x4 fixture
DGA24 FS/VT	Drywall ceiling adapter with trim kit

Notes

1 Approximate lumen output.
2 Not available with SLD, EL7L, or EL14L
3 Not available with N80, N80EMG, N100, or N100EMG.
4 Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
5 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
6 Must order with RES7N or RES7Z sensor. Only available with EZ1 or EZB driver. Not available with 72L option.
7 Must specify ADPT diffuser. See sensor section on page 3.
8 Requires N80, N80EMG, N100, or N100EMG.
9 Only available with EXA1 or EXAB driver options.
10 Only available with EZ1 or EZB driver option. 0-10V dimming wires not accessible via access plate.
11 Only available with EZ1 driver option. 0-10V dimming wires not accessible via access plate.
12 For more information, please see the PSSD2 specification sheet.

nLight® Wired Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH[1]

Notes

1 Can only be ordered with the RES7Z zone control sensor version.

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com
© 2011-2017 Acuity Brands Lighting, Inc. All rights reserved.

Sole Source Item #13 - Lithonia Interior Troffers

2VTL Volumetric Recessed Lighting 2'x4'

Sensor Options						
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking	nLight AIR Zone
		PIR	PDT			
MSD7ADCX	X	X				
MSDPDT7ADCX	X		X			
NES7		X		X		
NES7ADCX	X	X		X		
NESPDT7			X	X		
NESPDT7ADCX	X		X	X		
RES7N	X	X			X	
RES7Z	X	X				X

Basic nLight Zone

Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

Sequence of Operation

*The presetting on the automatic dimming photocell is 5fc.

Sensor Coverage Pattern
Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. The integrated rES 7 smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

Sequence of Operation

*The presetting on the automatic dimming photocell is 5fc.

9 FT Mounting

5.5	18
4.6	15
3.7	12
2.7	9
1.8	6
0.9	3
0 m	0 ft
0.9	3
1.8	6
2.7	9
3.7	12
4.6	15
5.5	18

Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With our CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the intended outcome

© 2011-2017 Acuity Brands Lighting, Inc. All rights reserved.

2VTL Volumetric Recessed Lighting 2'x4'

PHOTOMETRICS

2VTL4 40L ADP LP835, 4393 delivered lumens, test no. LTL24782P105, tested in accordance to IESNA LM-79

CP Summary

	0°	90
0°	1439	1439
5°	1428	1434
15°	1366	1392
25°	1251	1306
35°	1095	1188
45°	911	1037
55°	706	865
65°	484	677
75°	254	466
85°	55	153
90	4	10

Coefficients of Utilization

pf	20%								
pc	80%			70%			50%		
RCR pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	100	96	92	96	92	89
2	97	89	81	87	80	74	83	78	73
3	89	77	69	76	68	61	73	66	60
4	81	68	59	67	58	52	64	57	51
5	74	61	52	60	51	44	58	50	44
6	69	55	46	54	45	39	52	44	38
7	63	50	41	49	40	34	47	39	34
8	59	45	36	44	36	30	43	36	30
9	55	41	33	41	33	27	40	32	27
10	52	38	30	38	30	25	37	30	25

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1116	25.4	25.4
0° - 40°	1832	41.7	41.7
0° - 60°	3289	74.8	74.8
0° - 90°	4394	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4394	100.0	100.0

Mounting data

9/16

15/16

9/16 with accessory 2VT4 F916

SS

Performance Data

Lumen Package	Lumens	Input Watts[2]	LPW
30L ADP LP830	3305	26.4	125
30L ADP LP835	3470	26.4	132
30L ADP LP840	3836	26.4	146
30L ADP LP850	3824	26.4	145
40L ADP LP830	4164	33.2	126
40L ADP LP835	4393	33.2	133
40L ADP LP840	4501	33.2	136
40L ADP LP850	4823	33.2	145
48L ADP LP830	4820	39.1	123
48L ADP LP835	5090	39.1	130
48L ADP LP840	5209	39.1	133
48L ADP LP850	5586	39.1	143
60L ADP LP830	5288	44.2	120
60L ADP LP835	5582	44.2	126
60L ADP LP840	5738	44.2	130
60L ADP LP850	6122	44.2	138
72L ADP LP830	7044	58.7	120
72L ADP LP835	7182	58.7	122
72L ADP LP840	7714	58.7	132
72L ADP LP850	8141	58.7	139

Note: Based on ADP diffuser

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Ouput power of emergency driver. P = 10W for E10WLCP option.

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet. LPW = Lumen per watt rating of the luminaire. LPW information available in Performance Data section.

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

© 2011-2017 Acuity Brands Lighting, Inc. All rights reserved.