

Commercial Emergency

VU6L Series
Value+ Economy Grade LED
Thermoplastic Unit



Specifier's Reference

Project _____

Type _____

Model No. _____

Comments _____

codes and standards

- UL Listed to Standard 924.
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electric Code)
- BOCA and OSHA illumination standard.
- UL Listed for damp locations.

construction

- Contractor friendly, snap together design.
- UL 94V-O high impact thermoplastic construction.

installation

- Wall or ceiling mounted.
- Easy removable knobs for mounting.
- Jbox pattern on back panel.

electronics

- Surge protected, solid state circuitry.
- Charging systems are complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.
- VU6LSD comes with self-testing/self-diagnostic circuitry that will automatically initiate a one minute monthly test.
- 30 minute test every 6th month and one 90 minute test annually.
- A manual test can be performed at any time by simply pressing the test button. See spec sheet CE-17300.
- Power Consumption
AC Mode = 2.8W
ER Mode = 3.5W

lamps

- VU6L series units have two LED lampheads with 1.1 Watts per head.
- Expected lamp life up to 10 years.

battery

- Maintenance-free sealed lead calcium battery has an estimated service life of five years
- Operating temperature range of 65°F (19°C) to 85°F (30°C).
- Supplies 90 minutes of emergency illumination.

remote capacity

- VU6L 2-1.1W remote LED Lampheads.
- VL1RHP and VL2RHP are only remote lamp heads for this unit.

warranty

- Five year warranty on units.

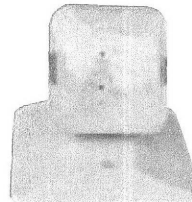
Ordering Information

Family	Voltage	Wattage	Housing Color	Lamp Type	Remote Capability
VU6L	6	5	White	1.1 Watt LED	2.2 Watt
VU6LB	6	5	Black	1.1 Watt LED	2.2 Watt
VU6LSD	6	5	White	1.1 Watt LED	2.2 Watt

Remote Lamp Heads				
Catalog Number	Volts	Wattage	Housing Color	
VL1RHP	6	1.1	White	
VL2RHP	6	2.2	White	

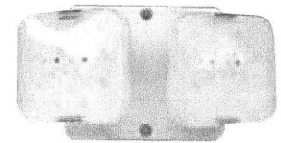
VL1RHP

LED Single Remote Lamp Heads



VL2RHP

LED Double Remote Lamp Heads



Accessories (order separately)

- WG4** Wire Guard for VU (wall mount only)
- PCS1** Polycarbonate Vandal Shield

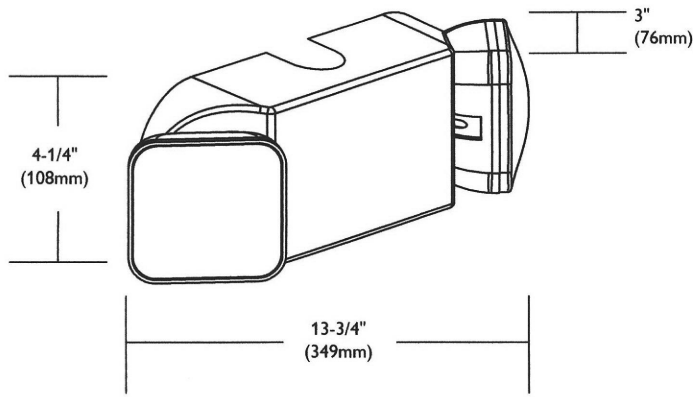
Note:

Refer to CA-51200 for matching remote lamp heads.

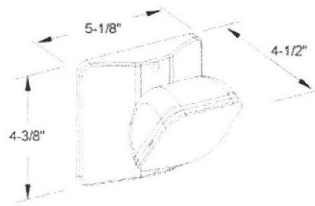


PHILIPS
CHLORIDE

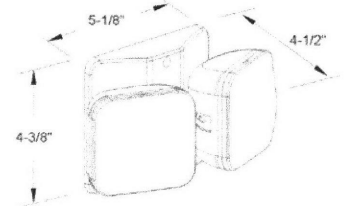
dimensions



VL1RHP
LED Single Remote Lamp Heads

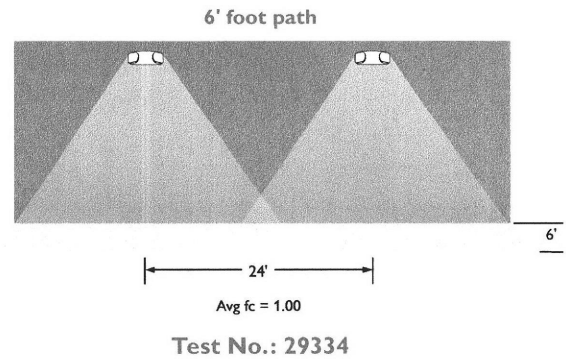
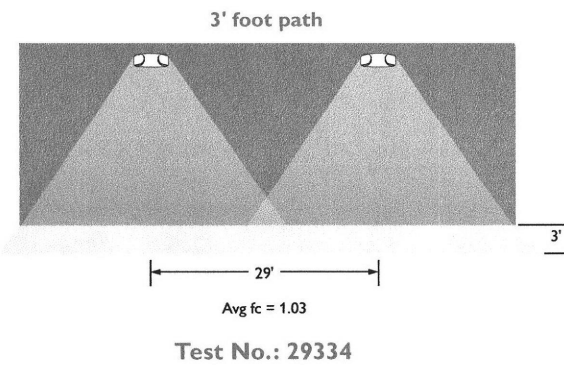


VL2RHP
LED Double Remote Lamp Heads



performance

Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 8', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.



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Contact Factory for Additional Configurations.

Specifications are subject to change without notice.

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org





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Interior Lighting Compliance Certificate

2010 Oregon Energy Efficiency Specialty Code

Section 1: Project Information

Project Type: **Alteration**

Project Title : Holladay Shop LLC

Construction Site:

10248 NE Holladay St.
Portland, OR 97220
Permit No. 13-186409-000-00-CO

Owner/Agent:

Terrill Allen
Allen & None Designs
12042 SE Sunnyside Rd. #461
Clackamas, OR 97015
503-380-9184
tallen@AllenAndNoneDesigns.com

Designer/Contractor:

David Wray
Northern Illumination Co.
17400 SW Upper Boones Ferry Rd.
Suite 270
Portland, OR 97224
503-226-3633
dwwray@nic-mail.com

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Exam Rooms (Hospital:Exam/Treatment) (Ceiling Height 10 ft.)	427	1.26	538
Hall & Med Prep (Hospital:Corridors /Transition) (Ceiling Height 10 ft.)	415	0.94	390
Waiting Room (Common Space Types:Lobby) (Ceiling Height 10 ft.)	166	1.28	212
Break Room (Common Space Types:Lounge/Recreation) (Ceiling Height 10 ft.)	48	1.16	56
Work Stations 1-3 (Common Space Types:Office - Enclosed) (Ceiling Height 10 ft.)	143	0.99(a)	142
Reception (Hospital:Nurse Station) (Ceiling Height 10 ft.)	50	0.85	43
Restrooms (Common Space Types:Restrooms) (Ceiling Height 10 ft.)	114	0.82	93
Mechanical (Common Space Types:Electrical/Mechanical) (Ceiling Height 10 ft.)	33	1.24	41
Total Allowed Watts =			1515

(a) Allowed watts per sq. ft. adjusted for ceiling height.

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Exam Rooms (Hospital:Exam/Treatment 427 sq.ft.)				
Linear Fluorescent 1: B: FluorescentPendant: 48" T8 32W: Electronic:	3	5	89	445
Hall & Med Prep (Hospital:Corridors /Transition 415 sq.ft.)				
Linear Fluorescent 2: A: Fluorescent Pendant: 48" T8 32W: Electronic:	2	5	59	295
Compact Fluorescent 1: C: CFL Pendant: Triple 4-pin 42W: Electronic:	1	2	45	90
LED 1: D: LED Pendant: Other:	1	1	6	6
Linear Fluorescent 9: 24" T8 17W: Electronic:	1	2	15	30
Waiting Room (Common Space Types:Lobby 166 sq.ft.)				
Compact Fluorescent 2: C: CFLPendant: Triple 4-pin 42W: Electronic:	1	4	45	180
LED 2: D: LED Pendant: Other:	1	3	6	18
Break Room (Common Space Types:Lounge/Recreation 48 sq.ft.)				
Linear Fluorescent 4: A: Fluorescent Pendant: 48" T8 32W: Electronic:	2	1	59	59
Work Stations 1-3 (Common Space Types:Office - Enclosed 143 sq.ft.)				
Linear Fluorescent 5: A: Fluorescent Pendant: 48" T8 32W: Electronic:	2	1	59	59

8. Light reduction controls. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either
- 1) controlling (dimming or multi-level switching) all luminaires; or
 - 2) dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps; or
 - 3) switching the middle lamp luminaires independently of other lamps; or
 - 4) switching each luminaire or each lamp.

Exception(s):

- Only one luminaire in space.
- An occupant-sensing device controls the area.
- The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
- Electrical and mechanical room.
- Areas that use less than 0.6 Watts/sq.ft.

Plans reference page/section: _____

9. Buildings larger than 2,000 square feet are equipped with an automatic control device to shut off lighting in those areas. This automatic control device shall function on either:
- 1) a scheduled basis, using time-of-day, with an independent program schedule that controls the interior lighting in areas that do not exceed 10,000 square feet and are not more than one floor; or
 - 2) an occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space; or
 - 3) a signal from another control or alarm system that indicates the area is unoccupied.

Exception(s):

- Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

Plans reference page/section: _____

10. Occupancy sensors in rooms that include daylight zones are required to have Manual ON activation.

Plans reference page/section: _____

11. An occupant sensor control device is installed that automatically turns lighting off within 30 minutes of all occupants leaving a space.

Exception(s):

- Classrooms and lecture halls.
- Conference, meeting and training rooms.
- Employee lunch and break rooms.
- Rooms used for document copying and printing.
- Office spaces up to 300 square feet.
- Restrooms.
- Dressing, fitting and locker rooms.

Plans reference page/section: _____

12. Additional controls. An occupant sensor control device that automatically turns lighting off within 30 minutes of all occupants leaving a space or a locally activated switch that automatically turns lighting off within 30 minutes of being activated is installed in all storage and supply rooms up to 1000 square feet.

Plans reference page/section: _____

13. Occupant override. Automatic lighting shutoff operating on a time-of-day scheduled basis incorporates an override switching device that: 1) is readily accessible, 2) is located so that a person using the device can see the lights or the area controlled by that switch, or so that the area being lit is annunciated, 3) is manually operated, 4) allows the lighting to remain on for no more than 2 hours when an override is initiated, and 5) controls an area not exceeding 2,000 square feet.

Exception(s):

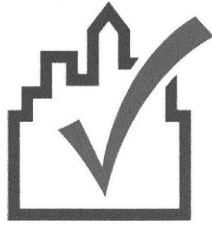
- In malls and arcades, auditoriums, single-tenant retail spaces, industrial facilities and arenas, where captive-key override is utilized, override time is permitted to exceed 2 hours.
- In malls and arcades, auditoriums, single-tenant retail spaces, industrial facilities and arenas, the area controlled shall not exceed 20,000 square feet.

Plans reference page/section: _____

14. Holiday scheduling. Automatic lighting shutoff operating on a time-of-day scheduled basis has an automatic holiday scheduling feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation.

Exception(s):

- Retail stores and associated malls, restaurants, grocery stores, places of religious worship, theaters and exterior lighting zones.
- Single zone electronic time control devices and self-contained wall box preset lighting controls.



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Exterior Lighting Compliance Certificate

2010 Oregon Energy Efficiency Specialty Code

Section 1: Project Information

Project Type: **Alteration**

Project Title : Holladay Shop LLC

Exterior Lighting Zone: **2 (Neighborhood business district)**

Construction Site:

10248 NE Holladay St.
Portland, OR 97220
Permit No. 13-186409-000-00-CO

Owner/Agent:

Terrill Allen
Allen & None Designs
12042 SE Sunnyside Rd. #461
Clackamas, OR 97015
503-380-9184
tallen@AllenAndNoneDesigns.com

Designer/Contractor:

David Wray
Northern Illumination Co.
17400 SW Upper Boones Ferry Rd.
Suite 270
Portland, OR 97224
503-226-3633
dwwray@nic-mail.com

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Entry Door Wall Lights (Main entry)	3 ft of door width	20	Yes	60	26
Rear Door Wall Light (Other door (not main entry))	3 ft of door width	20	Yes	60	0
Wall Lights on Entry Columns (Special feature area)	10 ft2	0.14	Yes	1	0
North facade wall & Entry overhang (Illuminated length of facade wall or surface)	38 ft	2.5	No	95	105
East walkway next to building (Walkway < 10 feet wide)	60 ft of walkway length	0.7	Yes	42	105
Planters at North side of Bldg. (Special feature area)	55 ft2	0.14	Yes	8	30
Trees at East side of driveway (Special feature area)	800 ft2	0.14	Yes	112	69
Can light over Entry Porch (Entry canopy)	49 ft2	0.25	Yes	12	15
HVAC area @ SW Corner of Bldg. (Special feature area)	300 ft2	0.14	Yes	42	150
Parking & Waste Disposal Areas (Parking area)	4352 ft2	0.06	Yes	261	600
Total Tradable Watts* =				598	995
Total Allowed Watts =				693	
Total Allowed Supplemental Watts** =				600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.

** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Entry Door Wall Lights (Main entry 3 ft of door width): Tradable Wattage				
Compact Fluorescent 4: Spiral 13W: Electronic:	1	2	13	26
Rear Door Wall Light (Other door (not main entry) 3 ft of door width): Tradable Wattage				
Halogen 1: 12V Halogen 35W: Exemption:Transportation marker, signal, and directional lighting	2	1	70	Exempt
Wall Lights on Entry Columns (Special feature area 10 ft2): Tradable Wattage				
Halogen 1: 12V Halogen 35W: Exemption:Transportation marker, signal, and directional lighting	2	2	70	Exempt

