



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0427-10**

**OSHPD Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Philips Lighting North America Corporation

Manufacturer's Technical Representative: Kunal Bhandare

Mailing Address: 3 Burlington Woods Drive, Burlington, MA, 01803

Telephone: (781) 418-9346 Email: Kundal.bhandare@philips.com

**Product Information**

Product Name: Dynalite DMC2, 4&6 Lighting Control Panel Assembly

Product Type: Lighting Control Panel

Product Model Number: See Certified Product Listing tables, attached.

(List all unique product identification numbers and/or part numbers)

General Description: The system consists of the wall-mounted lighting control panel assembly containing control, supply, communications, and relay modules.

Mounting Description: Rigid wall-mounted

**Applicant Information**

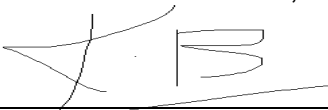
Applicant Company Name: Philips Lighting North America Corporation

Contact Person: Kunal Bhandare

Mailing Address: 3 Burlington Woods Drive, Burlington, MA, 01803

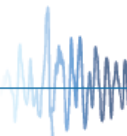
Telephone: (781) 418-9346 Email: Kundal.bhandare@philips.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: 7/15/16

Title: Sr. Compliance Engineer Company Name: Philips Lighting North America Corporation

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6<sup>th</sup> Flr., San Francisco, CA 94111

Telephone: (415) 837-0700 Email: m.scanu@forell.com

**Supports and Attachments Preapproval**

- Supports and attachments are preapproved under OPM- \_\_\_\_\_  
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

**Certification Method**

- Testing in accordance with:  ICC-ES AC156
- Other (Please Specify): \_\_\_\_\_

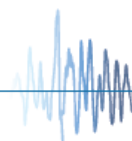
**Testing Laboratory**

Company Name: National Technical Systems

Contact Name: Jim Gaudette

Mailing Address: 1146 Massachusetts Avenue, Boxborough, MA 01719

Telephone: (978) 266-1001 Email: Jim.gaudette@nts.com





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**Seismic Parameters**

Design in accordance with ASCE 7-10 Chapter 13:  Yes  No

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.77

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.36

$a_p$  (In-structure equipment or component amplification factor) = 2.5

$R_p$  (Equipment or component response modification factor) = 6.0

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = n/a

Overall dimensions and weight (or range thereof) = See Certified Product Listing tables

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15:  Yes  No

Design Basis of Equipment or Components ( $V/W$ ) = \_\_\_\_\_

$S_{DS}$  (Design spectral response acceleration at short period, g) = \_\_\_\_\_

$S_{D1}$  (Design spectral response acceleration at 1 second period, g) = \_\_\_\_\_

$R$  (Response modification coefficient) = \_\_\_\_\_

$\Omega_0$  (System overstrength factor) = \_\_\_\_\_

$C_d$  (Deflection amplification factor) = \_\_\_\_\_

$I_p$  (Importance factor) = 1.5

Height to Center of Gravity above base : \_\_\_\_\_

Equipment or Component Natural Frequencies (Hz) = \_\_\_\_\_

Overall dimensions and weight (or range thereof) = \_\_\_\_\_

Tank(s) designed in accordance with ASME BPVC, 2010  Yes  No

**List of Attachments Supporting Special Seismic Certification**

Test Report(s)  Drawings  Calculations  Manufacturer's Catalog

Other(s) (Please Specify): \_\_\_\_\_

**OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019**

Signature:  Date: 8/5/16

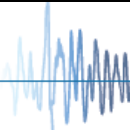
Print Name: M. R. Karim Title: SHFR

Special Seismic Certification Valid Up to :  $S_{DS}$  (g) = 2.36  $z/h$  = 1.0

Condition of Approval (if applicable): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Philips Dynalite Lighting Control Panel Assembly  
Certified Product Summary**

Lighting Control Panels	Width	Depth	Height	Maximum Weight <sup>1</sup>	Testing Status
DMC2	15 in	4.0 in	20.75 in	25 lb	PR-033413-15C
DMC4	17.5 in	4.2 in	32.7 in	47.4 lbs	PR047112
DMC6	17.5 in.	4.2 in.	52.6 in	75.9 lbs	PR047112

Notes:  
1. Weight includes internal components.  
2. All control panels are carbon steel indoor enclosures with carbon steel covers

**Philips Dynalite Lighting Control Panel Assembly  
Certified Internal Components**

DMC2, 4, and 6 Lighting Control Panels			
Internal Components	Manufacturer	Part #	Testing Status
Dynalite Modular Controller 2 x Module Positions	Philips Lighting Company	DMC2	UUT1
Dynalite Supply Module -Standard	Philips Lighting Company	DSM2-XX	UUT1, UUT3
Dynalite Communication Module (Dynet variant.)	Philips Lighting Company	DMC-Dynet	UUT1, UUT2, UUT3
Dynalite Module Relay 6x10A General Loading	Philips Lighting Company	DMR610-GL-UL	UUT1, UUT3
Dynalite Modular Controller 4 x Module Positions	Philips Lighting Company	DMC4	UUT2
Dynalite Supply Module -Standard	Philips Lighting Company	DSM4-XX	UUT2, UUT3
Dynalite Module Driver	Philips Lighting Company	DMD316-UL	UUT2, UUT3
Dynalite Module Relay Feedthrough	Philips Lighting Company	DMR316-FR-UL	UUT3
Dynalite Module Phase 3 x 10A General Loading	Philips Lighting Company	DMP310-GL-UL	UUT2, UUT3
Dynalite Module Phase Cut Dimming 6X3A General Loading	Philips Lighting Company	DMP603-GL-UL	UUT1, UUT2, UUT3
Dynalite Modular Controller 6 x Module Positions	Philips Lighting Company	DMC6	UUT3
Dynalite Module Driver – Feedthrough Relay	Philips Lighting Company	DMD316-FR-UL	UUT3

Test Reports:  
PR033413-15C and PR047122

## TEST SUMMARY

### Test Report PR033413-15C – UUT1

Dynalite DMC2 Lighting Control Panel Assembly  
 Carbon Steel wall mount case with epoxy powder coating  
 20.75 in H X 15 in W X 4 in D  
 Weight: 25 lbs

Wall Mounted with (4) 10-32 grade 2 screws with a torque of 30 in-lbs

The unit was full of content during testing.



Building		Test	S <sub>Ds</sub> (g)	z/h	Horizontal		Vertical	
Code		Criteria			A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2013		ICC-ES	3.04	1	4.86g	3.8g	2.05g	0.81g
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
n/a	n/a	n/a						

Internal Components	Manufacturer	Part #
Dynalite Modular Controller 2 x Module Positions	Philips Lighting Company	DMC2
Dynalite Supply Module -Standard	Philips Lighting Company	DSM2-XX
Dynalite Communication Module (Dynet variant.)	Philips Lighting Company	DMC-Dynet
Dynalite Module Phase cut dimming 6x3A General Loading	Philips Lighting Company	DMP603-GL-UL
Dynalite Module Relay 6x10A General Loading	Philips Lighting Company	DMR610-GL-UL

**Test Report TR-PR047112 – UUT2**

Dynalite Modular Controller (DMC) 4 Output Module  
 Part Number DMC4  
 Galvanized steel case with powder coated front covers  
 32.7 in H X 17.5 in W X 4.2 in D  
 Weight: 47.4 lbs



Wall Mounted with (6) 10-32 grade 2 screws with a torque of 30 in/lbs

The unit was full of content during testing.

Building		Test		S <sub>DS</sub> (g)	z/h	Horizontal		Vertical	
Code		Criteria				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2013		ICC-ES		2.36	1	3.78	2.83	1.58	0.63
Natural Frequencies				Test Results					
F-B	S-S	V	45	The UUT maintained structural integrity and functionality after the AC156 test.					
N/A	N/A	N/A	N/A						

Internal Components	Manufacturer	Part #
Dynalite Modular Controller 4 x Module Positions	Philips Lighting Company	DMC4
Dynalite Supply Module -Standard	Philips Lighting Company	DSM4-XX
Dynalite Communication Module (Dynet variant.)	Philips Lighting Company	DMC-Dynet
Dynalite Module Driver Control	Philips Lighting Company	DMD316-UL
Dynalite Module Relay Feedthrough Relay	Philips Lighting Company	DMD316-FR-UL
Dynalite Module Phase 3 x 10A General Loading	Philips Lighting Company	DMP310-GL-UL
Dynalite Module Phase Cut Dimming 6X3A General Loading	Philips Lighting Company	DMP603-GL-UL

**TEST SUMMARY**

**Test Report TR-PR047112 – UUT3**

Dynalite Modular Controller (DMC) 6 Output Module

Part Number DMC6

Gal

52.6 in H X 17.5 in W X 4.2 in D

Weight: 75.85 lbs



Wall Mounted with (6) 10-32 grade 2 screws with a torque of 30 in/lbs

Building		Test		S <sub>DS</sub>	z/h	Horizontal		Vertical	
Code		Criteria		(g)		A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2013		ICC-ES		2.36	1	3.78	2.83	1.58	0.63
<b>Natural Frequencies</b>				<b>Test Results</b>					
F-B	S-S	V	45	The UUT maintained structural integrity and functionality after the AC156 test.					
N/A	N/A	N/A	N/A						

The unit was full of content during testing.

Internal Components	Manufacturer	Part #
Dynalite Modular Controller 6 x Module Positions	Philips Lighting Company	DMC6
Dynalite Supply Module -Standard	Philips Lighting Company	DSM2-XX
Dynalite Communication Module (Dynet variant.)	Philips Lighting Company	DMC-Dynet
Dynalite Module Driver Control	Philips Lighting Company	DMD316-UL
Dynalite Module Relay 6 x 10A General Loading	Philips Lighting Company	DMR610-GL-UL
Dynalite Module Phase 3 x 10A General Loading	Philips Lighting Company	DMP310-GL-UL
Dynalite Supply Module	Philips Lighting Company	DSM4-XX
Dynalite Module Driver – Feedthrough Relay	Philips Lighting Company	DMD316-FR-UL
Dynalite Module Phase Cut Dimming 6X3A General Loading	Philips Lighting Company	DMP603-GL-UL
Dynalite Module Relay	Philips Lighting Company	DMR316-FR-UL