

COMcheck Software Version 3.8.1 Interior Lighting and Power Compliance Certificate

90.1 (2007) Standard

Section 1: Project Information

Project Type: Alteration
Project Title: Brooklyn Philharmonic

Construction Site:
299 DeGraw Street
Brooklyn, NY 11231

Owner/Agent:
Brooklyn Philharmonic
85 Washington Street
Suite 606
Brooklyn, NY 11201

Designer/Contractor:
HOK
1065 Avenue of the Americas
8th Floor
New York, NY 10018
1-212-741-1200

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (PS)	C Allowed Watts/100	D Allowed Watts (B x C)
Common Space Types:Active Storage	990	0.8	792
Common Space Types:Electrical/Mechanical	110	1.5	165
Common Space Types:Electrical/Mechanical	135	1.5	203
Common Space Types:Stair-Active	100	0.6	60
Common Space Types:Lobby	254	1.3	330
Common Space Types:Stair-Active	183	0.6	110
Common Space Types:Active Storage	63	0.8	50
Common Space Types:Active Storage	273	0.8	220
Common Space Types:Food Preparation	70	1.2	84
Common Space Types:Electrical/Mechanical	57	1.5	86
Common Space Types:Reception	225	0.9	203
Common Space Types:Corridor/Transition	105	0.5	53
Common Space Types:Lobby	101	1.3	131
Common Space Types:Classroom/Lecture/Training	644	1.4	902
Common Space Types:Office - Open Plan	1367	1.1	1504
Common Space Types:Office - Enclosed	213	1.1	234
Common Space Types:Active Storage	115	0.8	92
Total Allowed Watts =			5213

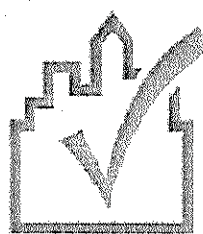
Area Category Exemption Qualifications

Activity Area	Total Wattage Pre-Alt.	Total Wattage Post-Alt.	# of Fixtures Repl./Added
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Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamp/ Fixture	C # of Fixtures	D Watts (C X D)	E Watts (C X D)
ceiling C01 (Common Space Types:Active Storage 860 sq.ft.)				
Linear Fluorescent 4: FS: INDUSTRIAL LINEAR / 48" T8 32W / Electronic	2	10	64	640
ceiling C02 (Common Space Types:Electrical/Mechanical 110 sq.ft.)				
Linear Fluorescent 4: copy 1: FS: INDUSTRIAL LINEAR / 48" T8 32W / Electronic	2	1	64	64
ceiling C03 (Common Space Types:Electrical/Mechanical 135 sq.ft.)				

Project Title: Brooklyn Philharmonic
Data Filename: K:\JMK\BrooklynPhilharmonic_NY06037\Calculations\COMcheck_NY06037_2010 90.1.rck
Report date: 04/15/11
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COMcheck Software Version 3.8.1 Exterior Lighting Compliance Certificate

90.1 (2007) Standard

Section 1: Project Information

Project Type: Alteration
Project Title: Brooklyn Philharmonic

Construction Site:
299 DeGraw Street
Brooklyn, NY 11231

Owner/Agent:
Brooklyn Philharmonic
85 Washington Street
Suite 606
Brooklyn, NY 11201

Designer/Contractor:
HOK
1065 Avenue of the Americas
8th Floor
New York, NY 10018
1-212-741-1200

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts /Unit	D Total Watts (B x C)	E Proposed Watts (B x C)	F Proposed Watts (B x C)
FRONT ENTRY (Main entry vestibule)	12 ft of door width	20	Yes	240	156
REAR YARD ACCESS (Other entry vestibule)	3 ft of door width	20	Yes	60	26
Total Treatable Watts =			420	162	
Total Allowed Supplemental Watts** =			21		

* Wattage treatable are only allowed between treatable areas/surfaces.

** A supplemental allowance equal to 5% of total allowed wattage may be applied toward compliance of both non-treatable and treatable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamp/ Fixture	C # of Fixtures	D Watts (C X D)	E Watts (C X D)
FRONT ENTRY (Main entry vestibule 12 ft of door width): Treatable Wattage				
Compact Fluorescent 1: FS: WALL MOUNTED / Twin Tube 36/50W / Electronic	1	2	78	156
REAR YARD ACCESS (Other entry vestibule 3 ft of door width): Treatable Wattage				
Compact Fluorescent 2: FS: WALL MOUNTED / Triple 4-pin 28W / Electronic	1	1	28	26
Total Treatable Proposed Watts =			162	

Section 4: Requirements Checklist

Lighting Wattage:

- ☒ 1. Within each non-treatable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all treatable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.

Compliance: Passes.

Controls, Switching, and Wiring:

- ☒ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the non-exempt lighting.
- ☒ 3. All lighting fixtures are controlled by a photosensor or astronomical time switch that is capable of automatically turning off the fixture when sufficient daylight is available or no lighting is not required.

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Exemptions:
☐ Concrete vehicle entrance/exit areas requiring lighting for safety, security and eye adaptation.

Exterior Lighting Efficacy:

- ☒ 4. All exterior building ground luminaires that operate at greater than 100W have minimum efficacy of 80 lumens/watt.

Exemptions:

- ☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.
- ☐ Lighting that is specifically designated as required by a health or life safety statute, ordinance, or regulation.
- ☐ Emergency lighting that is automatically off during normal building operation.
- ☐ Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 90.1 (2007) Standard requirements of COMcheck Version 3.8.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name: Title: Signature: Date:

Project Title: Brooklyn Philharmonic
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Exemptions:

- ☐ Electronic high-frequency ballasts.
- ☐ Luminaires not on same switch.
- ☐ Recessed luminaires 10 ft. apart or surface/pendant not continuous.
- ☐ Luminaires on emergency circuits.

Voltage Drop:

- ☒ Feeder conductors have been designed for a maximum voltage drop of 2 percent.
- ☒ Branch circuit conductors have been designed for a maximum voltage drop of 3 percent.
- ☒ Voltage drop analysis must include the parts of the existing system extending to the point of electrical supply at the transformer or service equipment entrance.

Interior Lighting TASSES

Section 5: Compliance Statement

Compliance Statement: The proposed lighting alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting alteration project has been designed to meet the 90.1 (2007) Standard requirements of COMcheck Version 3.8.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name: Title: Signature: Date:

Section 6: Post Construction Compliance Statement

Record Drawings and Operating and Maintenance Manuals:

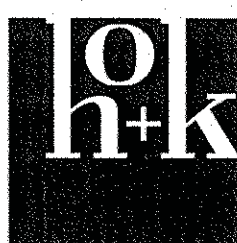
- ☒ 1. Construction documents with record drawings and operating and maintenance manuals provided to the owner.

Lighting Designer or Contractor Name: Signature: Date:

Project
BROOKLYN
PHILHARMONIC
MUSIC CENTER
299 DeGraw Street, Brooklyn, NY 11231

Prepared for
Brooklyn Philharmonic
55 Washington Street, Suite 606
Brooklyn, NY 11201

Contract No: 79.07250.09



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New York, NY 10018 USA
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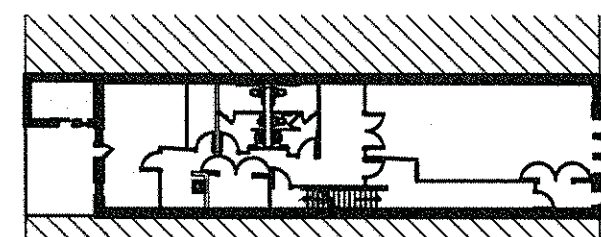
NYC Department of Design + Construction
30-30 Thompson Avenue, #5-076
Long Island City, NY 11101

Old Structures
Structural Engineers
111 Broadway, 14th Floor
New York, NY 10006

M-E Engineers
MEP Engineers
29 West 38th Street, 5th Floor
New York, NY 10018

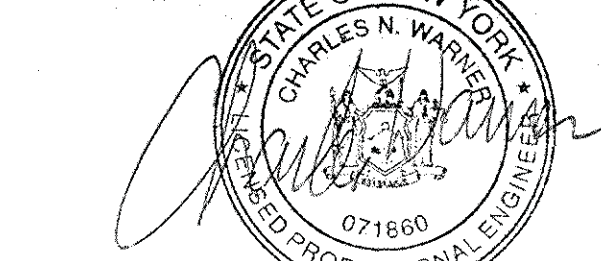
Syska Hennessy Group
Lighting Consultant
11 West 42 Street
New York, NY 10036

Key Plan



BLOCK: 414
LOT: 61

Professional Seals



It is a violation of the law of the State of New York for any
person, unless acting under the direction of a licensed
engineer, to alter any item on these drawings.

No.	Issue Description	MM-DD-YYYY
1	ISSUED FOR PLUMBING	06-14-2012
2	ISSUED FOR BID	07-20-2012

No.	Revision Description	MM-DD-YYYY
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B-Scan

Drawn by: DH Reviewed by: CW
Project No: 79.07250.09
Date: June 1, 2011
CAD ID: PVA4678PHL

Sheet Title:

NYECCC LIGHTING COMPLIANCE CERTIFICATE

Sheet Number

EN-102.00

Sheet 1 of 14
Original drawing is 42 x 30. Do not scale contents of this drawing.