



COMcheck Software Version 4.1.3.0  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC  
Project Title: Harbor Freight Tools  
Project Type: New Construction

Construction Site: 705 Wyatt Road Northwest, Cleveland, TN 37312  
Owner/Agent: Adam Steece, Harbor Freight Tools, 26541 Agoura Road, Calabasas, CA 91302  
Designer/Contractor: Brian M. Schuler, 17710 Detroit Ave, Lakewood, OH 44107

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Sales (Retail/Sales Area)	9416	1.10	10358
2-Stock (Common Space Types: Storage >=1000 sq.ft.)	5851	0.41	2399
3-Managers Office (Common Space Types: Office - Enclosed)	128	0.84	108
4-Cash Office (Common Space Types: Office - Enclosed)	126	0.84	106
5-Mens Restroom (Common Space Types: Restrooms)	64	0.77	49
6-Womens Restroom (Common Space Types: Restrooms)	64	0.77	49
7-Breakroom (Common Space Types: Lounge/Breakroom)	154	0.56	86
Total Allowed Watts =			13155

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Sales (Retail/Sales Area) LED 1: C,CE: 1x8' Strip Fixture: LED Other Fixture Unit 80W:	1	99	100	9900
LED 3: B,BE: 2x4' Recessed Fixture: LED Other Fixture Unit 36W:	1	2	36	72
LED 5: copy 1: C1,C1E: 1x4' Strip Fixture: LED Other Fixture Unit 40W:	1	1	50	50
2-Stock (Common Space Types: Storage >=1000 sq.ft.) LED 4: D,DE: 1x8' Strip Fixture: LED Other Fixture Unit 80W:	1	23	100	2300
LED 5: copy 2: d1: d1e: 1x4' Strip Fixture: LED Other Fixture Unit 40W:	1	8	50	400
3-Managers Office (Common Space Types: Office - Enclosed) LED 6: A,AE: 2x4' Recessed Fixture: LED Other Fixture Unit 60W:	1	2	50	118
4-Cash Office (Common Space Types: Office - Enclosed) LED 7: A,AE: 2x4' Recessed Fixture: LED Other Fixture Unit 60W:	1	2	59	118
5-Mens Restroom (Common Space Types: Restrooms) LED 8: B,BE: 2x4' Recessed Fixture: LED Other Fixture Unit 36W:	1	1	36	36
6-Womens Restroom (Common Space Types: Restrooms) LED 9: B,BE: 2x4' Recessed Fixture: LED Other Fixture Unit 36W:	1	1	36	36

Project Title: Harbor Freight Tools Report date: 06/02/20  
Data filename: M:\Harbor Freight\19155 Cleveland, TNK- Electrical\HFT.cck Page 1 of 9

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
7-Breakroom (Common Space Types: Lounge/Breakroom) LED 10: B,BE: 2x4' Recessed Fixture: LED Other Fixture Unit 36W:	1	3	36	108
Total Proposed Watts =				13158

Interior Lighting PASSES: Design 0: 1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.3.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian M. Schuler - P.E. Signature Date: 06-02-20

Project Title: Harbor Freight Tools Report date: 06/02/20  
Data filename: M:\Harbor Freight\19155 Cleveland, TNK- Electrical\HFT.cck Page 1 of 9



COMcheck Software Version 4.1.3.0  
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC  
Project Title: Harbor Freight Tools  
Project Type: New Construction  
Exterior Lighting: Zero

Construction Site: 705 Wyatt Road Northwest, Cleveland, TN 37312  
Owner/Agent: Adam Steece, Harbor Freight Tools, 26541 Agoura Road, Calabasas, CA 91302  
Designer/Contractor: Brian M. Schuler, 17710 Detroit Ave, Lakewood, OH 44107

Allowed Exterior Lighting Power

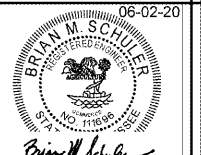
A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Entry Canopy (Entry canopy)	64 ft <sup>2</sup>	0.25	16	16
Parking Field (Parking area)	50784 ft <sup>2</sup>	0.00	0	0
North Walkway (Walkway < 10 feet wide)	847 ft of	0.5	424	424
East Walkway (Walkway < 10 feet wide)	757 ft of	0.5	379	379
Total Tradable Watts (a) =				2849
Total Allowed Watts (b) =				2849
Total Allowed Watts (a) - Total Allowed Watts (b) =				0

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.  
(b) A supplemental allowance equal to 400 watts may be applied to non-compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Entry Canopy (Entry canopy) 64 ft <sup>2</sup> : Tradable Wattage LED 10: C: Canopy Mounted LED: Other	1	2	35	70
Parking Field (Parking area) 50784 ft <sup>2</sup> : Tradable Wattage LED 11: LED recessed Fixture: Other	1	2	225	450
LED 12: 1: SE: LED recessed Fixture: Other	1	2	225	450
LED 2: SA: SDZ: LED recessed Fixture: Other	1	2	450	900
LED 3: SA: SDZ: LED recessed Fixture: Other	1	10	80	800
North Walkway (Walkway < 10 feet wide, 847 ft. of walkway length): Tradable Wattage LED 13: SA: Wall Mounted LED: Other	1	5	20	100
East Walkway (Walkway < 10 feet wide, 757 ft. of walkway length): Tradable Wattage LED 14: SA: Wall Mounted LED: Other	1	5	20	100
Total Tradable Proposed Watts =				2690

Project Title: Harbor Freight Tools Report date: 06/02/20  
Data filename: M:\Harbor Freight\19155 Cleveland, TNK- Electrical\HFT.cck Page 3 of 9



ARCHITECTS, INC.  
17710 Detroit Avenue, Lakewood, Ohio, 44107  
Phone (216) 521-5134 Fax (216) 521-4824  
www.aadarchitects.com

HARBOR FREIGHT TOOLS  
705 WYATT ROAD NORTHWEST  
CLEVELAND, TN 37312

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Exterior Lighting PASSES: Design 11% better than code

Exterior Lighting 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 exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.3.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian M. Schuler - P.E. Signature Date: 06-02-20

Project Title: Harbor Freight Tools Report date: 06/02/20  
Data filename: M:\Harbor Freight\19155 Cleveland, TNK- Electrical\HFT.cck Page 4 of 9

COMcheck Software Version 4.1.3.0  
Inspection Checklist

Energy Code: 2018 IECC  
Requirements: 100.0% were addressed directly in the COMcheck software  
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Requirement	Complies?	Comments/Assumptions
C102.2 (PR7)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C102.2 (PR8)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 (PR9)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input checked="" type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)  
Project Title: Harbor Freight Tools Report date: 06/02/20  
Data filename: M:\Harbor Freight\19155 Cleveland, TNK- Electrical\HFT.cck Page 5 of 9

Order Plans

DO NOT SCALE THESE DRAWINGS

#	DATE	TYPE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

REVISIONS

ELECTRICAL COMPLIANCE FORMS

DATE: 06/02/20  
JOB NO: 19155

E3.0  
SHEET NO.