

HIGH EFFICIENCY SURFACE MOUNT

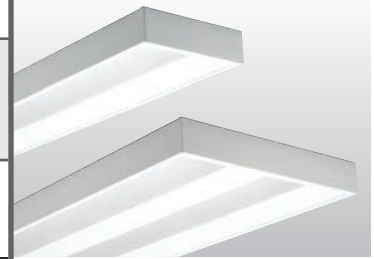
HES

CATALOG #: _____ TYPE: _____

PROJECT: _____

NOTES: _____

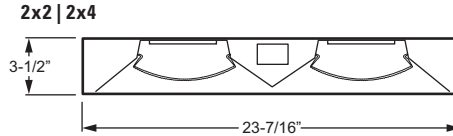
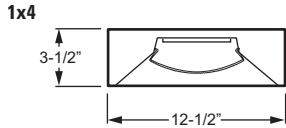
1x4 | 2x2 | 2x4 LED



EXAMPLE **HES** - **24** - **L76/840** - **A** - **OPTIONS** - **DIM** - **UNV**

SERIES NOM. NOM. W. L. LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS DRIVER VOLTAGE

CROSS SECTIONS



ORDERING INFORMATION

SERIES
HES High Efficiency Surface Mount

NOMINAL WIDTH

1	1'
2	2'

NOMINAL LENGTH

2	2'
4	4'

LED PACKAGE

Example: L76/840			AVERAGE SYSTEM WATTAGE
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	
1x4			
L30	3,000	830 = 80 CRI, 3000K	33
L33	3,300	835 = 80 CRI, 3500K	37
L36	3,600	840 = 80 CRI, 4000K	41
L38	3,800	850 = 80 CRI, 5000K	44
2x2			
L30	3,000	830 = 80 CRI, 3000K	33
L33	3,300	835 = 80 CRI, 3600K	37
L36	3,600	840 = 80 CRI, 4000K	41
L38	3,800	850 = 80 CRI, 5000K	44
2x4			
L40	4,000	830 = 80 CRI, 3000K	41
L50	5,000	835 = 80 CRI, 3600K	52
L60	6,000	840 = 80 CRI, 4000K	65
L76	7,600	850 = 80 CRI, 5000K	87

Nominal lumens based on 3500K CCT, actual lumens may vary.

SHIELDING
A Frosted, ribbed acrylic diffusers

OPTIONS
EM/10W (L__) 10-watt emergency driver (120-277V only) Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
Example: 6,500 nominal lumens = HETS-S24-L76/850-(L65).

DRIVER
 Additional dimming drivers available, [see Information Section](#).
DRV Driver prewired for non-dimming applications
DIM Driver prewired for 0-10V low voltage dimming applications

VOLTAGE
120 120V
277 277V
UNV 120-277V
347 347V (DRV and DIM only. Not available with EM drivers.)

FEATURES

- ▶ Attractive and efficient surface mount architectural fixture delivers comfortable, uniform illumination.
- ▶ Power and light levels can be custom set to meet energy and design needs.
- ▶ Multiple dimming protocols available.
- ▶ Optional system-integrated emergency LED driver available.
- ▶ Up to 7600 lumens (2x4) or 3800 lumens (1x4, 2x2).
- ▶ Fixture design allows LED technology to be added seamlessly to any existing HET project.
- ▶ Minimum 80 CRI; 3000K, 3500K, 4000K, or 5000K CCT.
- ▶ Delivers high efficacies at variable light levels.
- ▶ Tool-less access to all components.
- ▶ Frosted acrylic diffusers combined with highly reflective matte white paint provide high optical efficiencies and visual comfort.
- ▶ One-piece diffusers eliminate the need for separate overlays.
- ▶ Companion HET products available in Recessed Architectural and Williams Downlighting Recessed LED sections.
- ▶ This fixture is proudly made in the USA.



1x4 | 2x2 | 2x4 LED

Catalog #: HES-24-L76/840-A

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Shielding – Frosted, ribbed acrylic.
Finish – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – High quality mid-power LED boards. Rated for 50,000 hours at 70% lumen maintenance (L70).
Mounting – Surface.
Labels – cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
Warranty – 5-year limited warranty, see hew.com/warranty.

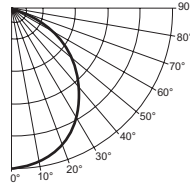
IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

PHOTOMETRY – 2x4

TEST REPORT INFORMATION

- ▶ Test Report #: 100669206CRT-007
- ▶ Date: 08/20/12
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 7793**
- ▶ **Watts: 85.7**
- ▶ **Lumens Per Watt: 90.9**
- ▶ **CRI: 82.7**
- ▶ **CCT: 4019K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	3257.	3257.	3257.	
5°	3246.	3240.	3226.	307.6
15°	3111.	3102.	3085.	874.0
25°	2825.	2818.	2797.	1295.0
35°	2386.	2404.	2399.	1498.0
45°	1840.	1892.	1905.	1452.0
55°	1268.	1357.	1331.	1188.0
65°	760.	838.	672.	769.0
75°	359.	349.	237.	351.2
85°	77.	29.	14.	59.6
90°	0.	0.	0.	

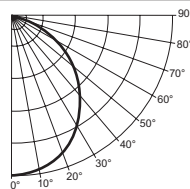
LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 30°	2477.	31.8
0° - 40°	3974.	51.0
0° - 60°	6613.	84.9
0° - 90°	7793.	100.0
TOTAL LUMINAIRE:		
0 - 180	7793.	100.0
IES Spacing Criteria: End = 1.2 Across = 1.2		

PHOTOMETRY – 2x2

TEST REPORT INFORMATION

- ▶ Test Report #: 100669206CRT-009
- ▶ Date: 08/20/12
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 3914**
- ▶ **Watts: 42.5**
- ▶ **Lumens Per Watt: 92.1**
- ▶ **CRI: 82.6**
- ▶ **CCT: 4023K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1681.	1681.	1681.	
5°	1678.	1676.	1664.	158.7
15°	1598.	1603.	1596.	450.6
25°	1430.	1442.	1444.	662.4
35°	1196.	1216.	1234.	758.7
45°	909.	943.	975.	726.4
55°	609.	666.	679.	585.2
65°	351.	410.	336.	372.5
75°	163.	173.	116.	168.9
85°	34.	19.	9.	30.6
90°	0.	0.	0.	

Catalog #: HES-22-L38/840-A

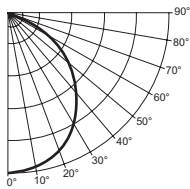
LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 30°	1272.	32.5
0° - 40°	2030.	51.9
0° - 60°	3342.	85.4
0° - 90°	3914.	100.0
TOTAL LUMINAIRE:		
0 - 180	3914.	100.0
IES Spacing Criteria: End = 1.2 Across = 1.2		

PHOTOMETRY – 1x4

TEST REPORT INFORMATION

- ▶ Test Report #: 100669206CRT-004
- ▶ Date: 08/20/12
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 3941**
- ▶ **Watts: 42.9**
- ▶ **Lumens Per Watt: 91.9**
- ▶ **CRI: 82.6**
- ▶ **CCT: 4007K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1663.	1663.	1663.	
5°	1655.	1658.	1655.	157.1
15°	1593.	1589.	1581.	447.0
25°	1453.	1446.	1434.	663.9
35°	1235.	1235.	1232.	769.8
45°	951.	973.	973.	744.9
55°	646.	695.	647.	599.0
65°	379.	414.	296.	372.6
75°	174.	162.	96.	162.1
85°	35.	10.	7.	24.9
90°	0.	0.	0.	

Catalog #: HES-14-L38/840-A

LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 30°	1268.	32.2
0° - 40°	2038.	51.7
0° - 60°	3382.	85.8
0° - 90°	3941.	100.0
TOTAL LUMINAIRE:		
0 - 180	3941.	100.0
IES Spacing Criteria: End = 1.2 Across = 1.2		

FIXTURE DETAILS

BACK VIEW

