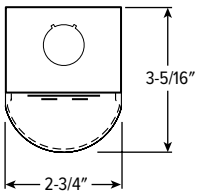
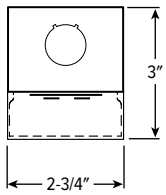
75R | 75S LED Narrow Strip



75R Shown



75S Shown

CATALOG #:

TYPE:

PROJECT:

FEATURES

- Small fixture profile allows inconspicuous placement in confined spaces
- Round and square lenses provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption
- Diffuse acrylic lens enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution
- HE option delivers superior efficacies up to 193 lm/W
- Optional wireguard provides added protection
- Available on QuickShip at hew.com/75R_quickship.pdf and hew.com/75S_quickship.pdf
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- SHIELDING – Diffuse acrylic lens. Frosted polycarbonate available for 75R, specify FP Option.
- FINISH – 92% minimum average reflective white polyester 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 board. L70 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 25°C maximum ambient operating temperature. 50°C max with HA50 Option. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
  - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
  - UL 924 available, see Options.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 75R - 4 - L30/835 - OPTIONS - CONTROL/DIM - UNV

SERIES
- **75R** Round lens
- **75S** Square lens

LENGTH
- **2** 22-1/2″
- **3** 33-9/16″
- **4** 44-5/8″
- **8** 89-1/4″ [2]

LUMENS [1]

2′
- **L15** 1,500lm
- **L25** 2,500lm

Single CCT only
- **L32** 3,200lm
- **L42** 4,200lm
- **L60** 6,000lm

3′

Single CCT only
- **L40** 4,000lm
- **L64** 6,400lm

4′
- **L30** 3,000lm
- **L50** 5,000lm

Single CCT only
- **L65** 6,500lm
- **L85** 8,500lm
- **L100** 10,000lm
- **L120** 12,000lm

8′
- **L60** 6,000lm
- **L100** 10,000lm

Single CCT only
- **L130** 13,000lm
- **L170** 17,000lm
- **L200** 20,000lm
- **L240** 24,000lm

CRI
- **8** 80
- **9** 90

CCT
- **27** 2700K
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K
- **TW** Tunable white (3000K-5000K)
- **TW2** Tunable white (2700K-6500K)

OPTIONS [3]

See page 3 for FINISH OPTIONS.
See page 3 for SPECIAL REFLECTOR OPTIONS.
See page 3 for QUICK-CONNECT OPTIONS.

- **EM/10WLP** Low-profile 10-watt emergency battery [4]
- **EM/10WRM** Remote mount 10-watt emergency battery
- **EM/10WRM/RTS** Remote mount 10-watt emergency battery with regressed test switch
- **EM/10W/ST** 10-watt self-diagnostic emergency battery [5]
- **HE** High efficacy lumen package [6]
- **HA** High ambient operating temperature, 40°C [7]
- **HA50** High ambient operating temperature, 50°C [8]
- **WG-75** 11-gauge white powder coat wireguard [9]
- **315** 1-1/2″ ceiling spacer
- **VBY** (2) Y-hangers
- **VBY-2** (2) Y-hangers with 2′ chains
- **RA-75** Row aligner [10]
- **45AMB** (2) 45° adjustable mounting brackets [11]
- **FP** Frosted polycarbonate lens for 75R
- **(L__)** Additional lower lumen packages available [12] Example: 7,000 nominal lumens = 75R-4-L85/835-**(L70)**
- **QC__** Quick-connect wiring harness
- **GEN** Approved for UL 924 emergency generator circuit through-feed wiring [13]
- **SP1** 10kV surge protection, 120 or 277V
- **SP2** 10kV surge protection, 208 or 240V
- **SP3** 10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) [14]

Prefix	Type	Length
ACF/ Feeder	**D** 1″ grid & hardpan	**24** 24″
ACJ/ Joiner	**N** 9/16″ grid	**48** 48″
	S Slot grid	**96** 96″

CONTROL

Click HERE for linear control and sensor options.

Click HERE for industrial control and sensor options.

– None

DRIVER

See page 5 for ADDITIONAL DRIVER OPTIONS.

- **DIM** Driver with external 0-10V dimming wires [16]
- **DIM1** 1% Driver with external 0-10V dimming wires [17]
- **DRV** Driver without external dimming wires [18]

VOLTAGE

- **120** 120V
- **208** 208V
- **240** 240V
- **277** 277V
- **UNV** 120-277V
- **347** 347V [15]

NOTES

1. Lumen output based on 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
2. Ships with (2) 4′ lenses.
3. Remote EM batteries: max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 4 for REMOTE MOUNT BATTERY DETAILS.
4. Not available with 2′ fixtures, 4′ L120 or 8′ L240 lumen packages.
5. Not available with 2′ fixtures, 4′ L120 or 8′ L240 lumen packages.
6. Not available with tunable white or 90 CRI, 3′ Length, 2′ L15, 4′ L30, or 8′ L60 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA.
7. Not available with 2′ L60, 4′ L120 and 8′ L240 lumen packages. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
8. Lumen restrictions apply: L32 max for 2′, L40 max for 3′, L65 max for 4′, L130 max for 8′. Not available with EM batteries.
9. Shipped separately, field-installed.
10. Required when row mounting with aircraft cables.
11. Cord recommended, ships separately. See page 4 for MOUNTING ACCESSORY DETAILS. Field-adjustable up and down in 7-1/2° increments.
12. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
13. Maximum mounting height is 15.4′ (4.7 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
14. Units specified with aircraft cable require cord and RA-75 row aligner. See page 4 for MOUNTING ACCESSORY DETAILS.
15. Not available with Tunable White or EM batteries.
16. 0.1% Driver with tunable white.
17. Not available with tunable white.
18. Not available with tunable white.

75R | 75S LED Narrow Strip

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD WATTAGE	STANDARD EFFICACY (lm/W)	HE OPTION [1] WATTAGE	HE OPTION [1] EFFICACY (lm/W)	AMBIENT TEMPERATURE (°C) HA OPTION w/EM	HA OPTION NO EM	HA50 OPTION NO EM
2'	L15	1509	10.7	141	–	–	40	40	50
	L25	2531	16.9	149	14.7	172	40	40	50
	L32	3337	22.6	148	17.3	193	40	40	50
	L42	4262	30.0	140	25.9	165	35	40	–
	L60	6093	42.5	143	35	174	–	–	–
3'	L40	4040	26.8	151	–	–	35	40	50
	L64	6541	46.0	142	–	–	30	35	–
4'	L30	3084	19.7	157	–	–	40	40	50
	L50	5062	33.4	152	27.4	185	40	40	50
	L65	6516	43.9	149	35.4	184	40	40	50
	L85	8524	60.6	141	48.2	177	35	40	–
	L100	10110	68.1	149	57.9	175	30	30	–
	L120	12041	82.9	145	70.4	171	–	–	–
8'	L60	5841	35.9	163	–	–	40	40	50
	L100	10124	67.1	151	53.7	189	35	35	50
	L130	13031	87.0	150	71.7	182	35	35	50
	L170	17047	121.1	141	95.1	179	35	35	–
	L200	20219	136.1	149	115.7	175	30	30	–
	L240	24082	165.7	145	140.8	171	–	–	–

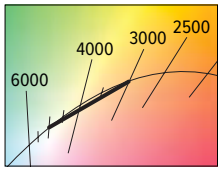
MULTIPLIER TABLE

	CCT	COLOR TEMPERATURE STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

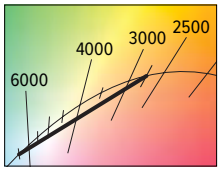
[1] Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

TW

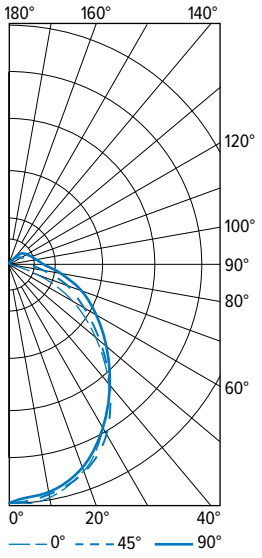


TW2



PHOTOMETRY

75R-4-L30/835 Total Luminaire Output: 3084 lumens; 19.7 Watts | Efficacy: 157 lm/W | 80 CRI; 3500K CCT



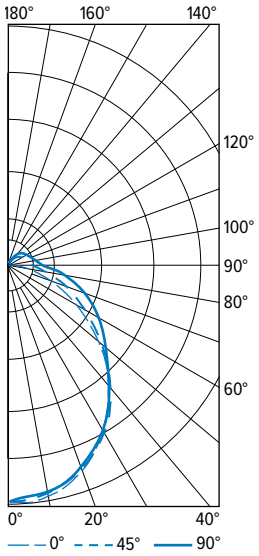
CANDLEPOWER DISTRIBUTION VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	988	988	988	
5	999	984	972	94
15	953	951	944	268
25	859	878	885	403
35	729	777	804	481
45	564	637	695	488
55	382	494	567	432
65	236	359	425	339
75	102	240	295	233
85	24	153	191	144
90	3	118	155	
95	0	95	125	86
105	0	57	83	52
115	0	36	57	31
125	0	20	39	18
135	0	11	24	9
145	0	5	13	4
155	0	2	6	1
165	0	0	1	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY ZONE	LUMENS	% FIXTURE
0 - 30	765	25
0 - 40	1246	40
0 - 60	2166	70
0 - 90	2883	94
90 - 120	169	6
90 - 150	200	7
90 - 180	201	7
0 - 180	3084	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

75R | 75S LED Narrow Strip

75S-4-L30/835 Total Luminaire Output: 3084 lumens; 19.7Watts | Efficacy: 157 lm/ W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

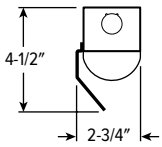
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1041	1041	1041	
5	1050	1036	1021	98
15	1003	994	982	279
25	895	900	885	412
35	750	765	749	475
45	578	592	603	460
55	401	442	492	400
65	236	320	389	315
75	103	206	284	214
85	18	123	187	126
90	0	94	148	
95	0	88	131	85
105	0	76	111	70
115	0	65	98	57
125	0	53	82	42
135	0	37	63	27
145	0	22	43	14
155	0	14	24	6
165	0	7	12	2
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY

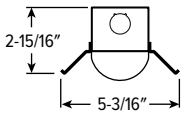
ZONE	LUMENS	% FIXTURE
0 - 30	790	26
0 - 40	1265	41
0 - 60	2125	69
0 - 90	2780	90
90 - 120	212	7
90 - 150	296	10
90 - 180	304	10
0 - 180	3084	100

SPECIAL REFLECTOR OPTIONS

R1015



R1172



Reflectors ordered and shipped separately. Cannot be used with wireguard accessories. To remove reflector, first remove the lens.

Example: **R1172**-4-75LED REFL

QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

FINISH OPTIONS

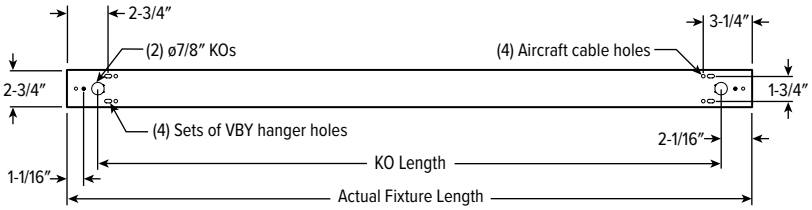
WHITE | BLACK | BRONZE | NICKEL | SILVER | ALUM | RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

75R | 75S LED Narrow Strip

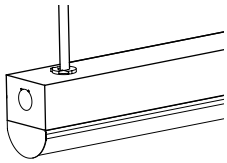
FIXTURE DETAILS

BACKVIEW



	7/8" KOs	ACTUAL FIXTURE LENGTH
2′	18-3/8"	22-1/2"
3′	29-1/2"	33-9/16"
4′	40-1/2"	44-5/8"
8′	85-1/8"	89-1/4"

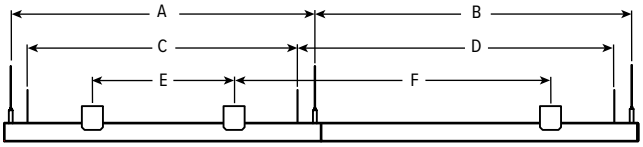
POWER ENTRY



MOUNTING ACCESSORY DETAILS

STAND ALONE

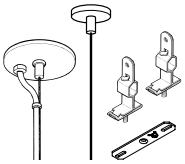
SUBSEQUENT



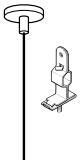
MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2′	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
3′	32-1/2"	33-9/16"	30-1/16"	33-9/16"	21"	33-9/16"
4′	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8′	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Power End or Stand-Alone



Row Mount Support

Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.
- Cable kit provides 10/32 male thread for connection to fixture.

CORD FOR SUSPENDED PRODUCT

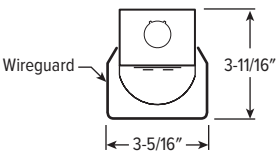
Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	**24** 24" **48** 48" **96** 96"	**3** **4** **5** [1] **6** [1]	**8D** 18ga	**/W** White **/B** Black

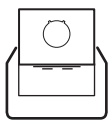
[1] Includes (2) 22ga purple & pink dimming conductors

WG-75

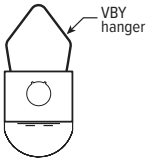
75R



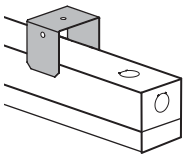
75S



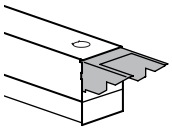
VBY



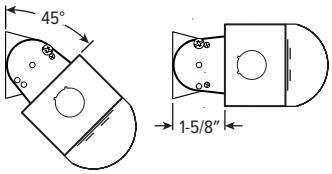
315



RA-75

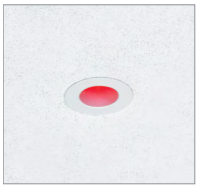


45AMB



REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

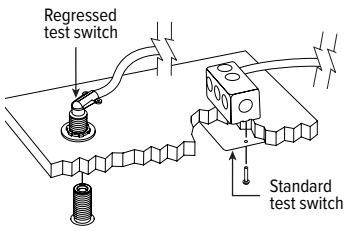


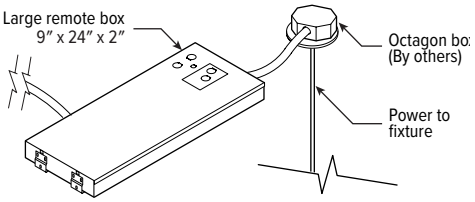
Regressed test switch
ø1-3/4"

EM/10WRM

Standard test switch
2-3/4" x 4-1/2"

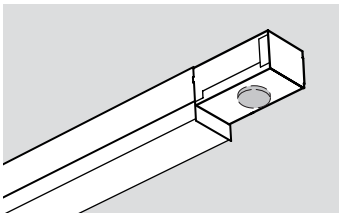
Max remote distance is 50′ including suspension length, connection by others.

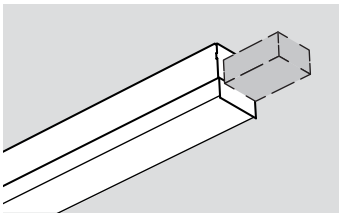




75R | 75S LED Narrow Strip

SENSOR & NODE PLACEMENT DETAILS





ADDITIONAL DRIVER OPTIONS

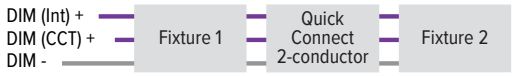
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

[1] Single CCT only.

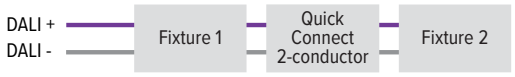
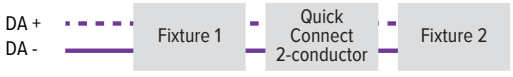
TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI



LD2