

FEATURES & SPECIFICATIONS

INTENDED USE — For use with common 6" installed housings for retrofit applications:
 New Construction use with housings L7X, LC6, or L7XLED T24 (dedicated LED connector).
 Remodel or install from below applications use with L7XR or L7XRLED T24 (dedicated LED connector).

LED module for use in retrofit / remodel or new construction applications where energy savings, long-life, and functional delivered light levels are required. The Reality LED module provides 80% energy savings over the 65W BR30 and replicates the beam pattern and useful light levels of these fixtures. It will maintain at least 70% light output for 50,000 hours in a typical IC environment. The Reality LED module is the most economical means to create a well lit environment with exceptional energy efficiency and near zero maintenance.

CONSTRUCTION — Rugged, one-piece, die-cast heat sink design for optimal thermal management.
 Wet location rated lens is tightly fitted to the housing to reduce the ingress of dust.
 Hardwire kit ships standard to enable a permanent conversion to a LED source and Title 24 compliant.
 Twin torsion springs ensure easy installation.

OPTICS — Elliptical upper reflector and a patented micro prism lens provides a 38 degree or 67 degree full width half max (FWHM) beam angle based on distribution chosen. Lower splay recesses optical system into the ceiling to prevent glare and provide a traditional look.

ELECTRICAL — LEDs on a metal core circuit board, ensure cool-running operation for long life.
 On-board circuitry to ensure protection against wiring errors.
 High-efficiency driver mounted on the module. Primary power disconnect provided for simple connection to a standard Edison (E26) base socket.

Full range dimming is standard; dimming down to 25%. Optimal dimming performance is achieved when connected to an electronic low-voltage (ELV) dimmer; See page 2 for recommended dimmers.
 Input wattage for 600L is 8 W, 80 lumens per watt. Input wattage for 1000L is 11W, 89 lumens per watt.
 Actual wattage may differ by +/-5% when operating at 120V +/-10%.

INSTALLATION — Suitable for installation in standard-height rough-in sections. Fits into most popular 6" housings.

LISTINGS — CSA certified to US and Canadian safety standards. Wet location listed. ENERGY STAR® rated.

WARRANTY — Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type

6" LED Module

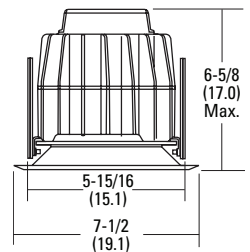


IC/Non-IC
Retrofit



Specifications

Aperture: 4-3/8 (11.1)
 Ceiling opening: As rough-in
 Overlap trim: 7-1/2 (19.1)
 Height: 6-5/8 (17.0) max.
 Weight (module only): 2.8 lbs.
 Weight (module and carton): 3.96 lbs.
 All dimensions are inches (centimeters) unless otherwise noted.



ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: REAL6 D6MW ESL 1000L 35K .60SC

Series/Finish		ESL	Lumen output ¹		Color temperature		Distribution		Voltage	
Series	Finish	Type								
REAL6 D6	6" energy star retrofit module	ESL ENERGY STAR® listed	600L	8W, 600 lumens	27K	2700K	.60SC	.60 spacing criteria	(blank)	120V
			1000L	11W, 1000 lumens	30K	3000K	.90SC	.90 spacing criteria		
					35K	3500K				
					40K	4000K				

Options						
PFMW	Matte white plastic flange ring	LC6	New construction rough-in ²		L7XRLED T24	Remodel rough-in (LED connector)
PFBL	Black plastic flange ring	L7XLED T24	New construction rough-in (LED connector)		LC6LED T24	New construction rough-in (LED connector)
L7X	New construction rough-in ²	L7XLED T24 SDT 277V	Non-IC 277V stepdown transformer (277V to 120V) (LED connector)		ISH	Insect shield
L7XR	Remodel rough-in ²					

Accessories: Order as separate catalog number.	
TSA6	Makes non-bracket housings compatible with the LED module ships as units, J6 or J25
FL2LED	Makes L7XF housings compatible with the LED module
REAL HW Kit	Enables a permanent conversion to an LED source and Title 24 compliant (ships standard)
CTR6	6" goof ring, white



TSA6
Torsion spring adapter



REAL HW Kit
REAL HW Hardware Kit



FL2LED
Fluorescent Adapter Kit

Notes

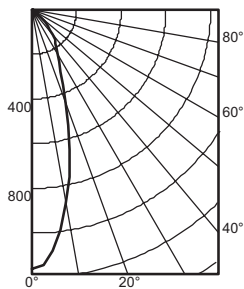
- Total system delivered lumens.
- Must be ordered on separate line.

REALITY™ 6" LED Energy Star

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
--------------------	-------------------	-------------	----------------------------	--

REAL6 D6MW ESL 600L 30K .60SC, input watts: 8, delivered lumens: 646, .60 spacing, LM/W=80, test no. LTL21399

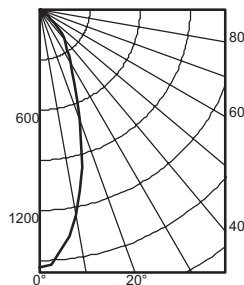


Ave Lumens	Zone Lumens	% Lamp	pf	20%			50%		
			pc	50%	30%	10%	50%	30%	10%
			pw						
0	1162	0° - 30°	0	119	119	119	116	116	116
5	1084	0° - 40°	1	110	108	105	108	106	104
15	651	0° - 60°	2	102	98	94	100	97	93
25	306	0° - 90°	3	95	90	86	94	89	85
35	187	90° - 180°	4	88	83	78	87	82	78
45	100	0° - 180°	5	83	77	72	82	76	72
55	20	*Efficiency	6	78	72	67	77	71	67
65	8		7	73	67	63	72	67	62
75	5		8	69	63	59	68	63	59
85	0		9	65	59	55	65	59	55
90	0		10	62	56	52	62	56	52

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	38.4	3.0	19.2	7.3	3.8
10.0	20.7	4.1	10.3	9.9	2.1
12.0	12.9	5.1	6.4	12.5	1.3
14.0	8.8	6.2	4.4	15.2	0.9
16.0	6.4	7.3	3.2	17.8	0.6

50% beam - 30.2° 10% beam - 66.9°

REAL6 D6MW ESL 1000L 30K .60SC, input watts: 11, delivered lumens: 982, .60 spacing, LM/W=89, test no. LTL21374

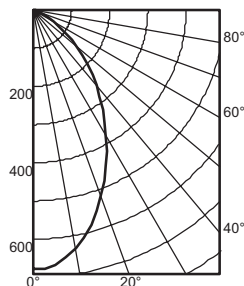


Ave Lumens	Zone Lumens	% Lamp	pf	20%			50%		
			pc	50%	30%	10%	50%	30%	10%
			pw						
0	1544	0° - 30°	0	119	119	119	116	116	116
5	1450	0° - 40°	1	110	108	105	108	106	103
15	973	0° - 60°	2	102	98	94	100	96	93
25	491	0° - 90°	3	94	89	85	93	88	84
35	289	90° - 180°	4	88	82	78	87	81	77
45	155	0° - 180°	5	82	76	71	81	75	71
55	35	*Efficiency	6	77	71	66	76	70	66
65	12		7	72	66	62	72	66	61
75	7		8	68	62	58	67	62	57
85	1		9	64	58	54	64	58	54
90	0		10	61	55	51	60	55	51

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	51.0	3.3	25.5	7.8	5.1
10.0	27.4	4.5	13.7	10.6	2.7
12.0	17.1	5.7	8.6	13.5	1.7
14.0	11.7	6.9	5.8	16.3	1.2
16.0	8.5	8.1	4.2	19.1	0.8

50% beam - 33.3° 10% beam - 70.7°

REAL6 D6MW ESL 1000L 30K .90SC, input watts: 11.7, delivered lumens: 928, .90 spacing, LM/W=79, test no. LTL21382



Ave Lumens	Zone Lumens	% Lamp	pf	20%			50%		
			pc	50%	30%	10%	50%	30%	10%
			pw						
0	679	0° - 30°	0	119	119	119	116	116	116
5	669	0° - 40°	1	108	105	102	106	103	101
15	583	0° - 60°	2	98	93	89	96	92	88
25	450	0° - 90°	3	89	83	78	88	82	77
35	317	90° - 180°	4	81	74	69	80	73	68
45	203	0° - 180°	5	74	67	61	73	66	61
55	104	*Efficiency	6	68	61	55	67	60	55
65	33		7	63	56	50	62	55	50
75	13		8	58	51	46	58	51	46
85	1		9	54	47	42	54	47	42
90	0		10	51	44	39	50	43	39

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	22.4	5.1	11.2	11.2	2.2
10.0	12.1	6.9	6.0	15.3	1.2
12.0	7.5	8.8	3.8	19.4	0.8
14.0	5.1	10.6	2.6	23.4	0.5
16.0	3.7	12.5	1.9	27.5	0.4

50% beam - 49.5° 10% beam - 91.1°

INSTALLATION, DIMMING AND ENERGY DATA

COMPATIBLE DIMMER SWITCHES	
MANUFACTURER	PART NO.
LUTRON	DVELV-300
	DVELV-303
	MAELV-600
	MIRELV-600
	NTELV-300
	NTELV-600
	SELV-300
VTSELV-600M	
LEVITON	6615-P
	ATE04-1L
	ATE06-1L
	VPE04-1L
	VPE06-1L
SYNERGY	ISD ELV

ENERGY DATA*	
Min. starting temp	-30°C (-22°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A standards
Input voltage	120V
Min. power factor	0.95
Input frequency	50/60 Hz
Max. THD	30%
Rated wattage	11.2W
Input power	11.2W
Input current	.1A

*Values at non-dimming line voltage.

Trim finish	Lumen multiplier
Clear Diffuse (A)	1.01
Matte White (MW)	1.00
Clear Specular (AZ)	1.00
Wheat (WT)	0.98
Brushed Nickel (BN)	0.97
Black Specular (BLZ)	0.96
Antique Bronze (BZA)	0.95
Oil-Rubbed Bronze (ORB)	0.95

Color temperature	Lumen multiplier
27K	0.83
30K	0.94
35K	1.00 (Baseline)
40K	1.03

HARDWARE INSTALLATION (REAL HW KIT)

The Hardware kit enables a permanent conversion to an LED source for easy installation and compliance with Title 24 as well as rebate programs.

- Remove the existing lamp and reflector, and discard them, leaving the socket hanging freely by the wires.
- Cut existing socket wires close to the socket and discard the socket.
- Disconnect and discard the E26 Adaptor from module (see Figure 1).
- Remove orange plug from the hardware kit bag. Pair the wires by color. Insert both into the red connector. Squeeze the metal U shaped fastener firmly. Flip the cover over to insulate the connection (See Figure 2).

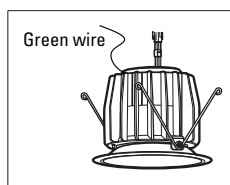


Figure 1

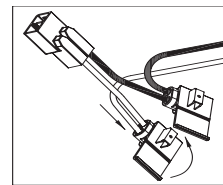


Figure 2

Notes

- Actual performance may differ as a result of end-user environment and application.