LITHONIA LIGHTING®

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 polycarbonate 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

REALITY™

IC/Non-IC Retrofit

DIMMABLE LED · ENERGY STAR · WET LOCATION™

Specifications

Aperture: 4-3/8 (11.1)

Ceiling opening: As rough-in

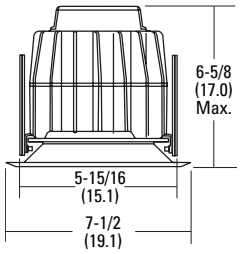
Overlap trim: 7-1/2 (19.1)

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

		ESL				
Series/Finish		**Type**	**Lumen output**[1]	**Color temperature**	**Distribution**	**Voltage**
Series **REAL6 D6** 6" energy star retrofit module	Finish **MW** Matte white **A** Clear diffuse AZ Clear specular BN Brushed nickel BLZ Black specular BZA Antique bronze ORB Oil-rubbed bronze WT Wheat diffuse	**ESL** ENERGY STAR® listed	**600L** 8W, 600 lumens **1000L** 11W, 1000 lumens	27K 2700K **30K** **3000K** 35K 3500K 40K 4000K	**.60SC** **.60 spacing criteria** .90SC .90 spacing criteria	**(blank)** 120V

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 Hardwire Kit

FL2LED
Fluorescent Adapter Kit

Notes

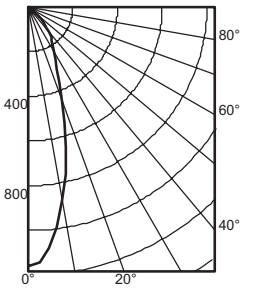
1 Total system delivered lumens.
2 Must be ordered on separate line.

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



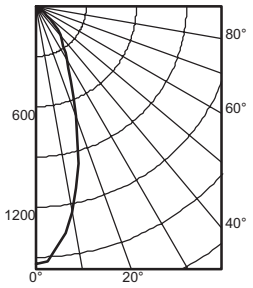
	Ave	Lumens
0	1162	
5	1084	97
15	651	179
25	306	144
35	187	117
45	100	75
55	20	21
65	8	8
75	5	5
85	0	1
90	0	

Zone	Lumens	% Lamp
0° - 30°	419.6	65.0
0° - 40°	536.2	83.1
0° - 60°	632.6	98.0
0° - 90°	645.6	100.0
90° - 180°	0.0	0.0
0° - 180°	645.6	*100.0
*Efficiency		

pf	80%			20%			50%		
pc	70%			50%			30%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	108	105	108	106	104	104	102	100
2	102	98	94	100	97	93	97	94	91
3	95	90	86	94	89	85	91	87	84
4	88	83	78	87	82	78	85	81	77
5	83	77	72	82	76	72	80	75	71
6	78	72	67	77	71	67	75	70	66
7	73	67	63	72	67	62	71	66	62
8	69	63	59	68	63	59	67	62	58
9	65	59	55	65	59	55	64	59	55
10	62	56	52	62	56	52	61	56	52

		50% beam - 30.2°		10% beam - 66.9°	
Mounting Height	Inital 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

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



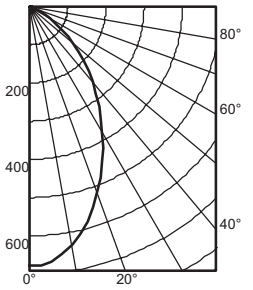
	Ave	Lumens
0	1544	
5	1450	132
15	973	267
25	491	229
35	289	181
45	155	117
55	35	36
65	12	12
75	7	7
85	1	1
90	0	

Zone	Lumens	% Lamp
0° - 30°	628.2	63.9
0° - 40°	809.2	82.4
0° - 60°	962.0	97.9
0° - 90°	982.4	100.0
90° - 180°	0.0	0.0
0° - 180°	982.4	*100.0
*Efficiency		

pf	80%			20%			50%		
pc	70%			50%			30%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	110	108	105	108	106	103	104	102	100
2	102	98	94	100	96	93	97	94	91
3	94	89	85	93	88	84	90	86	83
4	88	82	78	87	81	77	85	80	76
5	82	76	71	81	75	71	79	74	70
6	77	71	66	76	70	66	75	69	65
7	72	66	62	72	66	61	70	65	61
8	68	62	58	67	62	57	66	61	57
9	64	58	54	64	58	54	63	58	54
10	61	55	51	60	55	51	60	54	51

		50% beam - 33.3°		10% beam - 70.7°	
Mounting Height	Inital 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

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



	Ave	Lumens
0	679	
5	669	63
15	583	163
25	450	206
35	317	198
45	203	156
55	104	93
65	33	36
75	13	13
85	1	2
90	0	

Zone	Lumens	% Lamp
0° - 30°	431.8	46.4
0° - 40°	629.9	67.7
0° - 60°	879.2	94.6
0° - 90°	929.8	100.0
90° - 180°	0.0	0.0
0° - 180°	929.8	*100.0
*Efficiency		

pf	80%			20%			50%		
pc	70%			50%			30%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	105	102	106	103	101	102	100	98
2	98	93	89	96	92	88	93	89	86
3	89	83	78	88	82	77	85	80	76
4	81	74	69	80	73	68	78	72	67
5	74	67	61	73	66	61	71	65	61
6	68	61	55	67	60	55	66	59	55
7	63	56	50	62	55	50	61	54	50
8	58	51	46	58	51	46	56	50	46
9	54	47	42	54	47	42	53	46	42
10	51	44	39	50	43	39	49	43	39

		50% beam - 49.5°		10% beam - 91.1°	
Mounting Height	Inital 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

Notes

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

DOWNLIGHTING: One Lithonia Way Conyers, GA 30012 Phone: 800-315-4935 Fax: 770-860-3129 www.lithonia.com

REALITY™ 6" LED Energy Star

INSTALLATION, DIMMING AND ENERGY DATA

COMPATIBLE DIMMER SWITCHES	
MANUFACTURER	**PART NO.**
LUTRON	CTCL-153P
	DVELV-300
	DVELV-303
	DV(W)CL-153P
	MAELV-600
	MIRELV-600
	NTELV-300
	NTELV-600
	SELV-300
	VTELV-600M
LEVITON	6615-P
	ATE04-1L
	ATE06-1L
	IPE04-1L2
	VPE04-1L
	VPE06-1L
SYNERGY	ISD ELV 400 120

When installing the REALITY LED Modules on a run with a dimmer, please use the following rule of thumb when determining the number of fixtures controlled by a single dimmer:

- Figure that each LED fixture represents a 75-watt load.
- Divide the maximum load of the dimmer by 75-watt fixture load (round down to the nearest whole number).

Example:
Dimmer max load = 600 watts
LED fixture load = 75 watts
600 watts/75 watts per fixture = 8 fixtures per run

ENERGY DATA 600 LUMENS*	
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	8W
Input power	8W
Input current	.1A

*Values at non-dimming line voltage.

ENERGY DATA 1000 LUMENS*	
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

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

HARDWIRE INSTALLATION (REAL HW KIT)

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

1 Remove the existing lamp and reflector, and discard them, leaving the socket hanging freely by the wires.
2 Cut existing socket wires close to the socket and discard the socket.
3 Disconnect and discard the E26 Adaptor from module (see Figure 1).
4 Remove orange plug from the hardwire 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).

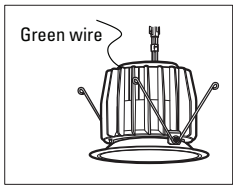


Figure 1

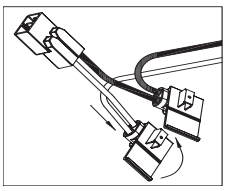


Figure 2

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