

DESCRIPTION

Low brightness adjustable accent/slope fixture for flat or sloped ceilings. Lockable 365° rotation and tool-less 45° tilt provides full output without flashback. Offered in three field interchangeable beam distributions providing a smooth beam. Available in lumen packages of 1000 - 7500 in color temperatures of 2700K, 3000K, 3500K, and 4000K. Accessible from above or below the ceiling plane. The square adjustable accent is the ideal companion for the Portfolio square downlights and lensed wall wash. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Reflector

Aluminum lower reflector is available in a variety of Alzak® and painted finishes. Mousetrap springs pull trim tight to ceiling. Offered with self flange or polymer trim ring.

Upper Reflector

Field interchangeable optics in 15°, 25° or 35° provides smooth beam without color separation. Media holder fits onto upper reflector and holds up to two lens media.

Trim Ring

Self flanged or white polymer trim ring.

Adjustment Mechanism

Stable aiming and locking mechanism allows smooth 365° rotation and 45° tilt adjustment. Tilt aiming scale enables consistent setting across multiple fixtures.

Housing

20 gauge galvanized steel plaster frame that rotates +/-7.5°. 18 gauge CRS housing is painted matte black to eliminate stray light. Housing is tool-less top accessible.

Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, T bar fasteners and hanger bars. Provides 5" total adjustment.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and longer life.

LED

LED system contains a plurality of high brightness white LED's combined with a high reflectance upper reflector producing even distribution without pixilation. Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours) Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 0.1% 0-10V, Fifth Light, or DMX. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

Field installed WaveLinX accessory tile mount sensor kit. The WTA WaveLinX tile mount sensor kit offers daylight dimming, PIR motion sensing control, and optional

Catalog #		Type
Project		
Comments		Date
Prepared by		

RLTS - Real Time Location Services available. (Refer to WaveLinX system specifications and application guides for details)

The WTA WaveLinX kit includes control module that mounts on the luminaire electrical junction box via 1/2" knock-out, and tilemount sensor with direct-mount spring clips or for octagon ceiling box with included mounting bracket. (Field mount kit ordered and installed separately).

Enlighted wireless tilemount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance

Thermally protected and cULus listed for damp locations. Wet location listed with covered ceiling with lensed trim. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. IC rated up to 1800 lumens, 2800 lumen is Non-IC rated. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11

Warranty

5-year warranty.



LDSQA6A 6L

1000 - 7500 Lumen LED

6-Inch
Adjustable
Slope
New Construction

ENERGY DATA

Sound Rating: Class A standards	
T ambient -40 + 40°C	
Power Factor: >0.90	
THD < 20%	

1000 Lumen

	120V	277V
Input Power	13.8W	15.0W
Input Current	0.12A	0.06A
Inrush Current	0.49A	0.85A

1500 Lumen

	120V	277V
Input Power	22.9W	22.9W
Input Current	0.19A	0.09A
Inrush Current	0.72A	0.53A

2000 Lumen

	120V	277V
Input Power	29.1W	29.4W
Input Current	0.24A	0.12A
Inrush Current	0.79A	1.09A

3000 Lumen

	120V	277V
Input Power	44.5W	44.2W
Input Current	0.37A	0.17A
Inrush Current	1.09A	1.23A

4500 Lumen

	120V	277V
Input Power	54.4W	52.2W
Input Current	0.46A	0.2A
Inrush Current	0.48A	1.316A

5500 Lumen

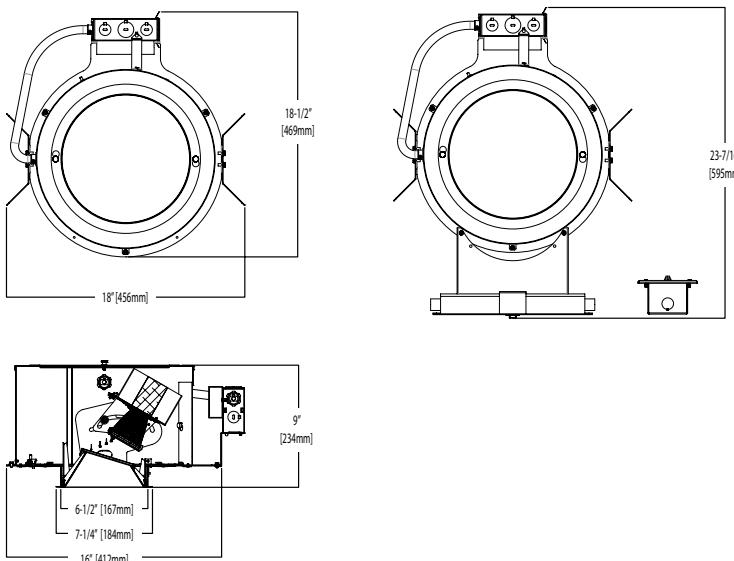
	120V	277V
Input Power	60.8W	60.5W
Input Current	0.51A	0.24A
Inrush Current	1.248A	2.944A

6500 Lumen

	120V	277V
Input Power	78.7W	77.5W
Input Current	0.66A	0.3A
Inrush Current	0.224A	0.704A

7500 Lumen

	120V	277V
Input Power	78.7W	77.5W
Input Current	0.66A	0.3A
Inrush Current	0.224A	0.704A



ORDERING INFORMATION

SAMPLE NUMBER: LDSQA6A09835D010TE

Housing	Lumens ¹	CRI	CCT	Driver	Options ^{3,6}
LDSQA6A =6" Square Aperture adjustable/slope LDSQA6ACP =6" Square Aperture adjustable/slope, Chicago Plenum	10 =1000 (IC Rated) 15 =1500 (IC Rated) 20 =2000 (IC Rated) 30 =3000 (Non IC) ⁵ 45 =4500 (Non IC) ^{5,7} 55 =5500 (Non IC) ^{5,7} 65 =6500 (Non IC) ^{5,7} 75 =7500 (Non IC) ^{5,7}	8 =80 CRI 9 =90 CRI	27 =2700K 30 =3000K 35 =3500K 40 =4000K 30D2W = Dim to warm 3000K to 1850K (1800 lumen and below, 90 CRI) ⁸	1000, 1500, 2000, 3000 and 4500 Lumen D010TE =120-277V 0-10V 1% dimming or trailing edge 120V Dimming 1000, 1500, 2000 and 3000 Lumen D010TR =120-277V 0-10V 1% dimming or leading edge 120V Dimming D5LT =Fifth Light® (DALI) 0% Dimming DE010 =1 to 100% Dimming, 120-277V 50/60Hz, 0-10V DLT =Hi-Lume Forward Phase 2-wire Dimming 120V DMX =DMX 0% Dimming ⁹ 5500, 6500, and 7500 Lumen D010 =120-277V, 0-10V 10% Dimming	EMBOD =7W Bodine® Emergency Module with Remote Test Switch EMBOD7ST =Bodine® Emergency Module with Self Test Remote Test Switch EM7 =7W Emergency Module with Remote Test Switch EM14 =14W Emergency Module with Remote Test Switch

SAMPLE NUMBER: LAR35FL

Beam Forming Upper Reflector	
1000 to 3000 lumen LARL15SP =15° Reflector LARL20NF =20° Reflector LAR35FL =35° Reflector	4500 to 7500 lumen LARH20SP =20° Reflector LARH30NF =30° Reflector LARH40FL =40° Reflector

SAMPLE NUMBER: 6LSQA1MB

Reflector	Finish	Options
6LSQA0 =6" Adjustable Accent, Polymer Trim Ring 6LSQA1 =6" Adjustable Accent, Self Flanged 6LSQAL0 =6" Lensed Adjustable Accent, Polymer Trim Ring 6LSQAL1 =6" Lensed Adjustable Accent, Self Flanged	H =Semi-Specular Clear (Haze) WMH =Warm Haze WH =Wheat GPH =Graphite Haze B =Specular Black MW =Matte White MB =Matte Black	Self-Flanged Only WF =White Painted Flange

Accessories

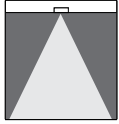
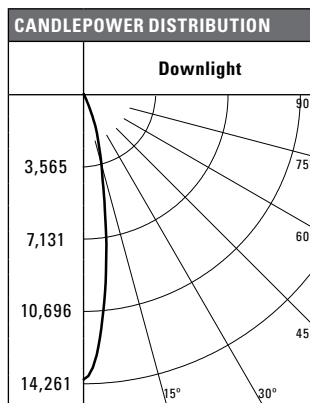
6SQPR =Plaster Lathing Ring ² Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair Transformers H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Connected Lighting Systems PORLWTPD1 =Enlighted wireless sensor kit (0-10V only) WTA =WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RLTS - Real Time Location Services, use with D010 only (Refer to WaveLinX system specifications and guides for details) Field installed ¹⁰	Color Filters F22-20 =Red F33-20 =Blue F44-20 =Green F55-20 =Yellow F66-20 =Mercury Dichronic Filters F71-20 =Peach F72-20 =Amber F73-20 =Green F74-20 =Medium Blue F75-20 =Yellow F76-20 =Red F77-20 =Dark Blue F78-20 =Light Blue F79-20 =Neutral Density F80-20 =Magenta	Beam-Modifying Lenses LSL-20 =Linear Spread Lens OSL-20 =Overall Spread Lens DIF-20 =Diffused Lens Louvers LVR-20 =Hex Cell Louver Snoot PLNC-SN-B =Snoot
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Notes:

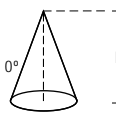
- Nominal Lumens will vary depending on selected color, driver and reflector finish.
- Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
- Not available with Chicago Plenum and requires above ceiling access. Not for use with insulation.
- Required for T-24 compliance with lensed trims.
- Product is marked spacing and must be installed with the following minimum spacing:
Center to center of adjacent luminaires: 36"
Center of luminaire to side of building member: 18"
Minimum overhead clearance: 1/2"
- Not CSA approved.
- Not available in Chicago Plenum.
- Includes 30° distribution diffuse lens. Order with LARL15SP upper reflector. Reference ies files for output.
- DMX fixtures default to full on upon loss of DMX signal.
- Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. Use with 0-10V driver.

PHOTOMETRY

Test Number P29053
 Housing LDSQA6A30835D010TE
 Trim LARL15SP 6LSQA1H
 Lumens 2412 Lm
 Efficacy 55.6 Lm/W
 SC 0.31

CONE OF LIGHT



MH	FC	L	W
5.5'	471.4	1.6	1.6
7'	291	2.1	2
8'	222.8	2.3	2.4
9'	176.1	2.7	2.8
10'	142.6	3	3
12'	99	3.6	3.6

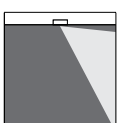
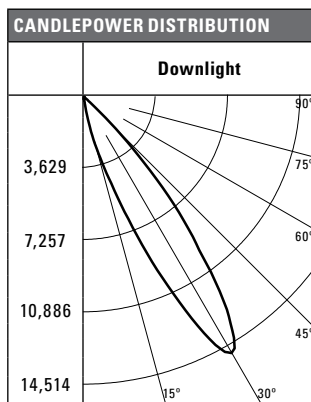
CANDELA TABLE

Degrees Vertical	Candela
0	14261
5	11294
15	3565
25	506
35	25
45	4
55	1
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

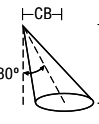
Zone	Lumens	%Fixture
0-30	2379	98.6
0-40	2406	99.8
0-60	2412	100
0-90	2412	100
90-180	0	0
0-180	2412	100

Test Number P29054
 Housing LDSQA6A30835D010TE
 Trim LARL15SP 6LSQA1H
 30° Tilt
 Lumens 2135 Lm
 Efficacy 49.3 Lm/W

CONE OF LIGHT

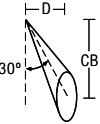
Horizontal



MH	FC	L	W	CB
5.5'	69.9	5.7	3.2	3.2
7'	43.2	7.4	4	4
8'	33	8.5	4.6	4.6
9'	26.1	9.5	5.2	5.2
10'	21.1	10.6	5.8	5.8
12'	14.7	12.7	7	6.9

CONE OF LIGHT

Vertical



D	FC	L	W	CB
1'	9628.3	0.3	0.2	1.7
2'	2407.1	0.7	0.6	3.5
3'	1069.8	1.1	1	5.2
4'	601.8	1.5	1.4	6.9
5'	385.1	1.9	1.6	8.7
6'	267.5	2.3	2	10.4

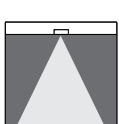
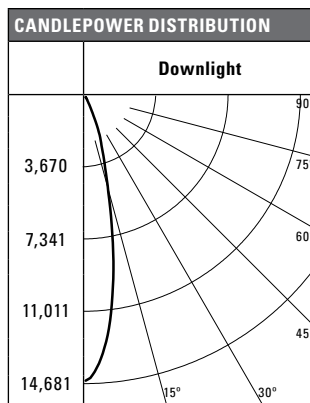
CANDELA TABLE

Degrees Vertical	Candela
0	140
5	215
15	3083
25	11119
35	11637
45	2210
55	19
65	2
75	0
85	0
90	0

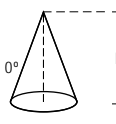
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	1000	46.8
0-40	1837	86
0-60	2124	99.5
0-90	2135	100
90-180	0	0
0-180	2135	100

Test Number P29055
 Housing LDSQA6A30835D010TE
 Trim LARL20NF 6LSQA1H
 Lumens 2803 Lm
 Efficacy 64.6 Lm/W
 SC 0.37

CONE OF LIGHT



MH	FC	L	W
5.5'	485.3	2	2
7'	299.6	2.5	2.6
8'	229.4	2.9	3
9'	181.2	3.3	3.4
10'	146.8	3.7	3.6
12'	102	4.4	4.4

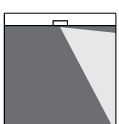
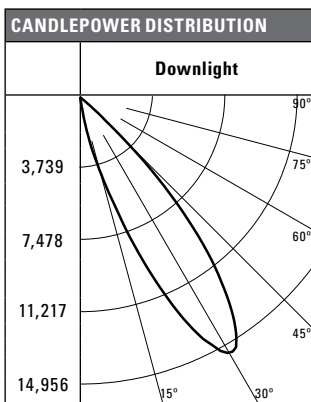
CANDELA TABLE

Degrees Vertical	Candela
0	14681
5	12710
15	4409
25	761
35	57
45	6
55	1
65	0
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

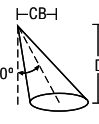
Zone	Lumens	%Fixture
0-30	2747	98
0-40	2793	99.7
0-60	2803	100
0-90	2803	100
90-180	0	0
0-180	2803	100

Test Number P29056
 Housing LDSQA6A30835D010TE
 Trim LARL20NF 6LSQA1H
 30° Tilt
 Lumens 2610 Lm
 Efficacy 60.3 Lm/W

CONE OF LIGHT

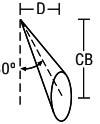
Horizontal



MH	FC	L	W	CB
5.5'	77.2	6.1	3.6	3.2
7'	47.7	7.8	4.6	4
8'	36.5	8.9	5.2	4.6
9'	28.8	10.1	5.8	5.2
10'	23.4	11.1	6.6	5.8
12'	16.2	13.4	7.8	6.9

CONE OF LIGHT

Vertical



D	FC	L	W	CB
1'	10251.1	0.4	0.4	1.7
2'	2562.8	0.9	0.8	3.5
3'	1139	1.3	1.2	5.2
4'	640.7	1.8	1.6	6.9
5'	410	2.3	2	8.7
6'	284.8	2.7	2.4	10.4

CANDELA TABLE

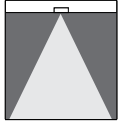
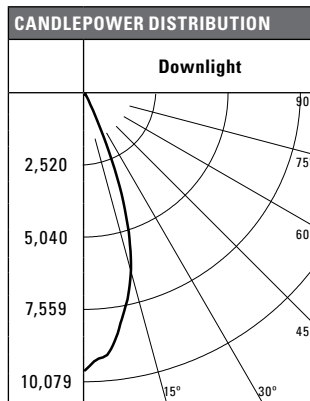
Degrees Vertical	Candela
0	176
5	350
15	4001
25	12299
35	13469
45	4534
55	74
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

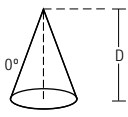
Zone	Lumens	%Fixture
0-30	1127	43.2
0-40	2155	82.6
0-60	2598	99.5
0-90	2610	100
90-180	0	0
0-180	2610	100

PHOTOMETRY

Test Number P29057
 Housing LDSQA6A30835D010TE
 Trim LARL35FL 6LSQA1H
 Lumens 3260 Lm
 Efficacy 75.1 Lm/W
 SC 0.6

CONE OF LIGHT



MH	FC	L	W
5.5'	335.8	3.1	3
7'	207.3	4	4
8'	158.7	4.5	4.6
9'	125.4	5.1	5.2
10'	101.6	5.7	5.6
12'	70.5	6.9	6.8

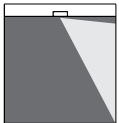
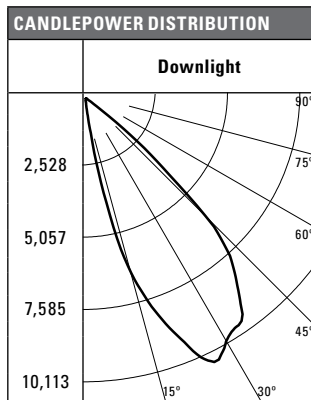
CANDELA TABLE

Degrees Vertical	Candela
0	9787
5	9275
15	6434
25	1180
35	83
45	6
55	1
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

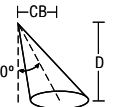
Zone	Lumens	%Fixture
0-30	3197	98.1
0-40	3251	99.7
0-60	3259	100
0-90	3260	100
90-180	0	0
0-180	3260	100

Test Number P29058
 Housing LDSQA6A30835D010TE
 Trim LARL35FL 6LSQA1H
 30° Tilt
 Lumens 3023 Lm
 Efficacy 69.7 Lm/W

CONE OF LIGHT

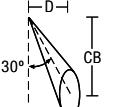
Horizontal



MH	FC	L	W	CB
5.5'	76.8	5	4.6	3.2
7'	47.4	6.5	5.8	4
8'	36.3	7.4	6.6	4.6
9'	28.7	8.4	7.4	5.2
10'	23.2	9.3	8.2	5.8
12'	16.1	11.2	10	6.9

CONE OF LIGHT

Vertical



D	FC	L	W	CB
1'	7013.4	0.5	0.6	1.7
2'	1753.4	1.2	1.2	3.5
3'	779.3	1.8	1.8	5.2
4'	438.3	2.5	2.6	6.9
5'	280.5	3.2	3.2	8.7
6'	194.8	3.7	3.8	10.4

CANDELA TABLE

Degrees Vertical	Candela
0	240
5	586
15	6478
25	9974
35	9367
45	6253
55	101
65	1
75	0
85	0
90	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30	1357	44.9
0-40	2369	78.4
0-60	3011	99.6
0-90	3023	100
90-180	0	0
0-180	3023	100