

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Retrofit, remodel, and new construction mounting types. See table for compatible ceiling openings and thickness range.

Optional goof rings available for additional overlap trim coverage.

1/2"-1-1/2" ceiling thickness

25° ambient temperature

IC rated up to 1000lm

OPTICS — 55° cutoff

New construction frame accessories approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

80CRI standard (90CRI optional)

ELECTRICAL — Adjustable lumen output with four module options. Fixed lumen options also available. MVOLT 120/277V 50/60Hz driver (0-10V & 120V Phase Dimming to 10% or 1% min dimming level)

FCC CFR Title 47 Part 15 Class A for 277V. FCC CFR Title 47 Part 15 Class B for 120V.

L80 at 60,000 hours

3 SDCM

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (Wet Location (WL) optional, requires covered ceiling). Some configurations are ENERGY STAR® certified, please visit www.energystar.gov for specific products. TAA compliant. UFC (3-530-01) specification compliant for power factor and THD. GSA P100 6.2.4 compliant for power quality at full output; compliant up to 2000lm at fully dimmed output.

Title 24 compliant (90CRI, up to 1000lm).

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Catalog
Number

Notes

Type

LBR6

6" OPEN



Retrofit | Remodel



New Construction



LBR6 AR LSS MWD		80CRI							
Lumen Output	Wattage	30K/80CRI		35K/80CRI		40K/80CRI		50K/80CRI	
		Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
AL01 (500LM)	6	571	99	585	101	599	103	617	105
AL01 (750LM)	9	905	102	926	103	948	105	977	108
AL01 (1000LM)	13	1270	98	1300	100	1330	102	1372	104
AL02 (1000LM)	13	1346	108	1378	110	1410	112	1454	115
AL02 (1500LM)	19	1965	105	2011	107	2059	109	2123	111
AL02 (2000LM)	25	2476	100	2533	101	2593	103	2674	106
AL03 (2000LM)	25	2547	103	2606	105	2668	107	2751	109
AL03 (2500LM)	32	3075	98	3146	100	3221	101	3321	104
AL03 (3000LM)	38	3492	93	3573	95	3658	96	3771	99
AL04 (4000LM)	39	4180	107	4265	109	4350	112	4393	113
AL04 (4500LM)	44	4613	105	4707	107	4801	109	4848	110
AL04 (5000LM)	49	5017	102	5119	104	5221	107	5273	108

LBR6 MS MWD		80CRI							
Lumen Output	Wattage	30K/80CRI		35K/80CRI		40K/80CRI		50K/80CRI	
		Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
AL01 (500LM)	6	570	99	584	101	597	102	616	105
AL01 (750LM)	9	903	102	924	103	946	105	975	108
AL01 (1000LM)	13	1268	98	1297	100	1328	102	1369	104
AL02 (1000LM)	13	1344	108	1375	110	1408	112	1451	115
AL02 (1500LM)	19	1961	105	2007	106	2055	108	2118	111
AL02 (2000LM)	25	2471	99	2528	101	2588	103	2668	105
AL03 (2000LM)	25	2542	103	2601	104	2663	106	2745	109
AL03 (2500LM)	32	3069	98	3140	99	3214	101	3314	103
AL03 (3000LM)	38	3485	93	3566	94	3651	96	3764	98
AL04 (4000LM)	39	3511	90	3583	92	3654	94	3690	95
AL04 (4500LM)	44	3875	88	3954	90	4033	92	4072	93
AL04 (5000LM)	49	4214	86	4300	88	4386	90	4429	90



A+ Capable options indicated
by this color background.

Module ordering

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LBR6 ALO2 SWW1 AR LSS MWD MVOLT UGZ 90CRI

Series	Lumens ‡	Color temperature ‡	Reflector Color	Reflector Flange	Reflector Finish
LBR6 6" Retrofit LBR6WW ‡ 6" Retrofit Wallwash	Adjustable Lumen Output ALO1 500/750/1000lm ALO2 1000/1500/2000lm ALO3 2000/2500/3000lm ALO4 4000/4500/5000lm	Fixed Lumen Output 05LM 500lm 07LM 750lm 10LM 1000lm 15LM 1500lm 20LM 2000lm 25LM 2500lm 30LM 3000lm 40LM 4000lm 45LM 4500lm 50LM 5000lm	Switchable CCT SWW1 3000K-3500K- 4000K-5000K Fixed CCT 30K 3000K 35K 3500K 40K 4000K 50K 5000K	MS ‡ Metallic Silver WR ‡ White painted BR ‡ Black painted AR Clear	(blank) Self-flanged TRW ‡ White painted flange TRBL ‡ Black painted flange
					LSS Semi-specular

Distribution	Voltage	Driver	Options
MWD Medium wide (1.0 s/mh) WD Wide (1.2s/mh) WW ‡ Wallwash	MVOLT 120 277 347	UGZ Universal dimming to 10% 0-10V; line voltage dimming (120V) UGZ1 Universal dimming to 1% 0-10V; line voltage dimming (120V) DALI ‡ DALI dimming to 1% D10 Minimum dimming 10% driver for use with JOT D1 Minimum dimming 1% driver for use with JOT	90CRI High CRI (90+) AT ‡ Airtight E10WCP ‡ Batterypack (10W constant power) Non-T20 Compliant integral test switch E10WCPR ‡ Batterypack (10W constant power) T20 Compliant remote test switch ELR ‡ Batterypack (10W constant power) Non-T20 Compliant remote test switch ETS ‡ Iota Emergency Transfer System
			EC1 ‡ Extended Conduit (18") EC6 ‡ Extended Conduit (6ft) WL ‡ Wet Location (IP55) QDS ‡ Quick disconnect plugs CP ‡ Chicago Plenum JOT ‡ Wireless room control with "Just One Touch" pairing

nLight Options ‡

NPS80EZ	nLight® network power/relay pack with 0-10V dimming
NPS80EZER	nLight® network power/relay pack with 0-10V dimming; ER controls fixtures on emergency circuit.
NLTAIR2	nLight® Air enabled
NLTAIRER2	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit
NLTAIREM2	nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection.

‡ Option Value Ordering Restrictions

Options	Restriction
Adjustable Lumens/CCT	Adjustable Lumen Output and Switchable CCT must be specified together (for example: ALO1 SWW1)
Fixed Lumens/CCT	Fixed Lumen Output and Fixed CCT must be specified together (for example: 10LM 30K)
AT	Standard for CP and IP55, not available with WW
E10WCPR	Not available EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT.
E10WCP	Not available with EC1, EC6, AT, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, WL, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT.
ELR	Not available EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, ALO3 & ALO4 w/DALI, OR 2000-4500 lumens w/JOT.
EC1, EC6	Not Available with CP,QDS, ELR, E10WCP, or E10WCPR.
WL	Not available with WW, All CP is wet location, except WW (Damp). IP55 rated.
QDS	Must be specified for use with LBR_PFWQDS. Not available with 347V, CP, QDS, ELR, E10WCP, E10WCPR.
EC1	Not Available with CP,QDS, ELR, E10WCP, or E10WCPR.
JOT	Not available with CP, nLight options, UGZ, or DALI drivers. Max 4500 lumens. Fixed lumens and CCT only. Not available with 2000-4500lm in conjunction with batterypack.
NPS80EZ	Not available with CP, QDS, DALI, D1, OR D10 drivers. 120V OR 277V only. Not available with 347V.
NPS80EZER	Not available with CP, QDS, ELR, E10WCP, E10WCPR, DALI, D1, OR D10 drivers. 120V OR 277V only. Not available with 347V.
NLTAIR2	Not available with CP, QDS, DALI, D1, OR D10 drivers. See UL 924 Sequence of Operation table. Non-emergency luminaires with this option can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.
NLTAIRER2	Not available with CP, QDS, ELR, E10WCP, E10WCPR, DALI, D1, OR D10 drivers. Not available with 347V.
NLTAIREM2	Not available with CP, QDS, ELR, E10WCP, E10WCPR, DALI, D1, OR D10 drivers. See UL 924 Sequence of Operation table.
CP	Must be specified for use with LBR_PFWCP. Not available with, QDS, EC1, EC6, ELR, E10WCP, E10WCPR, 347V, JOT, NPS80EZ, NPS80EZ ER, NLTAIR2, NLTAIRER2, NLTAIREM2, D1, OR D10 drivers.
ETS	Not available with, QDS, ELR, E10WCP, E10WCPR, 347V, JOT, NPS80EZ, NPS80EZ ER, NLTAIR2, NLTAIRER2, NLTAIREM2, DALI, D1, OR D10 driver
DALI	Not available with fixed lumens or CCT. Max 4500 lumens.
WW	Not available with WL, ELR, E10WCP, and E10WCPR
TRW, TRBL	Available with MS and AR reflectors only.
MS, WR, BR	Not available with LSS reflector finish

Accessories: Order as separate catalog number. Shipped separately.	
LBRGR78	Goof ring 7-3/4" to 8-3/4" for LBR6
LBRCPGR78	Chicago Plenum Goof ring 7-3/4" to 8-3/4" for LBR6
LDN67RVRGIN IFB	Install-from-below rough-in frame
LBR468 FPAN U	Mounting plate 4"-8" unit pack
LBR468 FPAN J10	Mounting plate 4"-8" 10-pack
LBR SDT 347V 75W ASM	Field installed 347V Step-down transformer

Goof rings must specify reflector color
Examples: LBRGR56 WR, LBRGR78 BR, LBRGR910 AR
WR = white, BR = black, AR = Clear

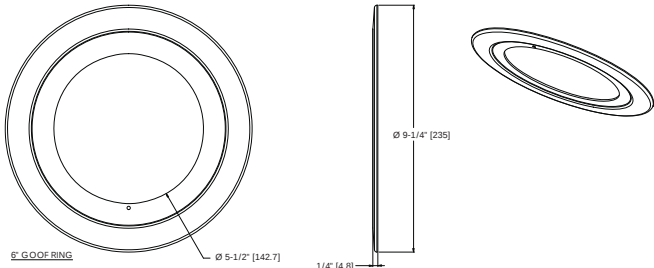
UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

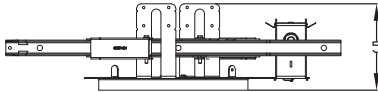
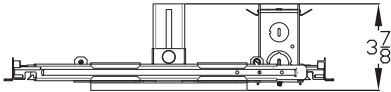
- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the **CLAIRITY+** mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

New Construction Frames: Order as separate catalog number. Shipped separately.	
LBR6PFW	6" New construction frame with JBOX, 18" conduit
LBR6PFWQDS ‡	6" New construction frame with JBOX, 18" conduit, quick disconnects
LBR6PFWCP ‡	6" Chicago Plenum New construction frame with JBOX, 18" conduit

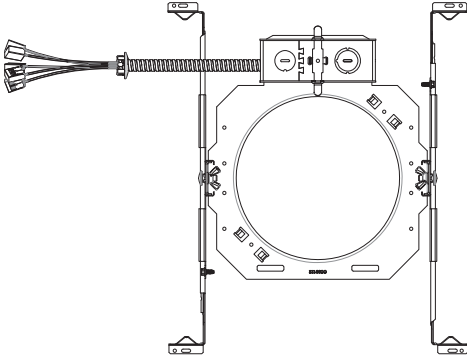
NOTE: ‡ indicates option value has ordering restrictions. Please reference the Option Value Ordering Restrictions chart on the next page.



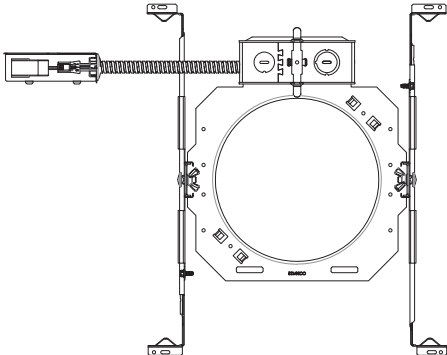
* All dimensions are inches (millimeters) unless otherwise noted.



Aperture Size	Ceiling Cutout
6 In	7-1/8"



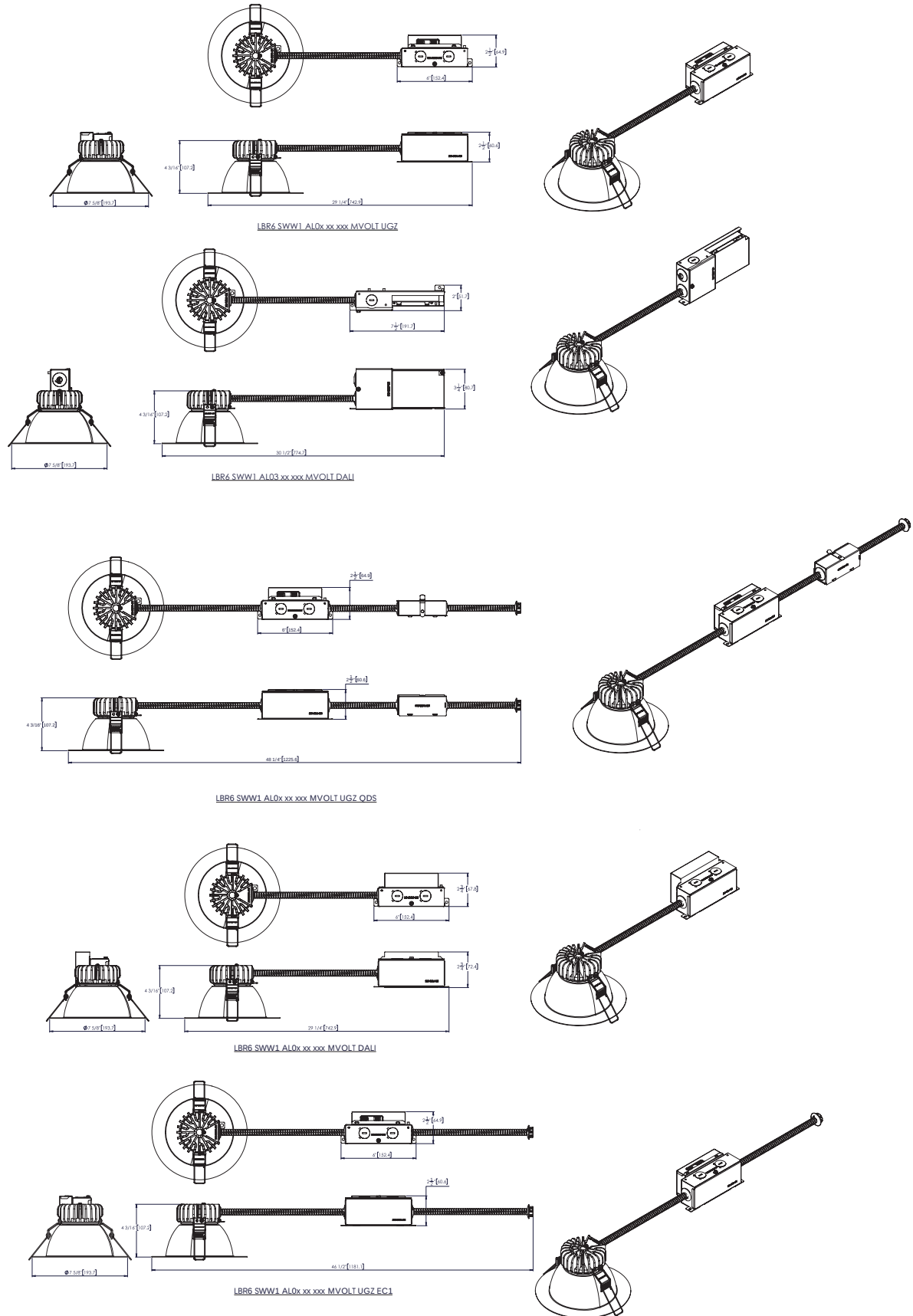
6" New Construction Frame, 18" conduit



6" New Construction Frame, QDS

LBR6

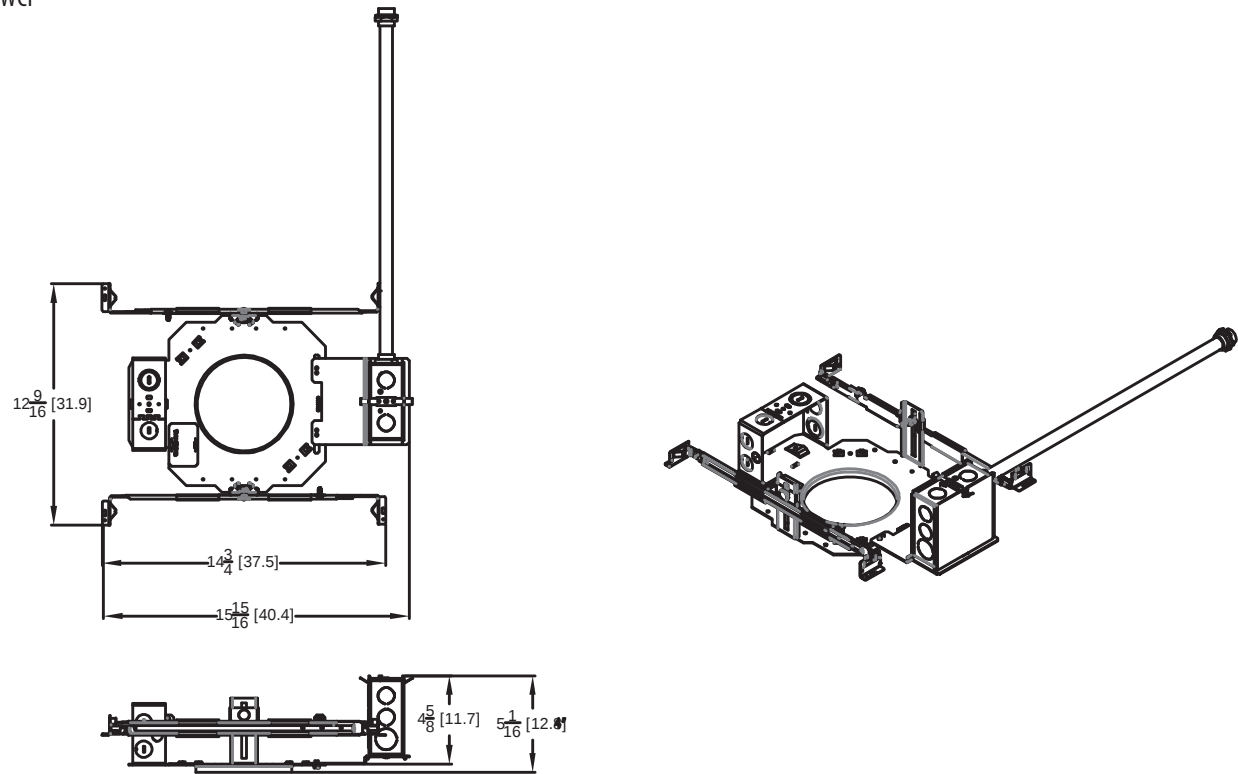
* All dimensions are inches (millimeters) unless otherwise noted.



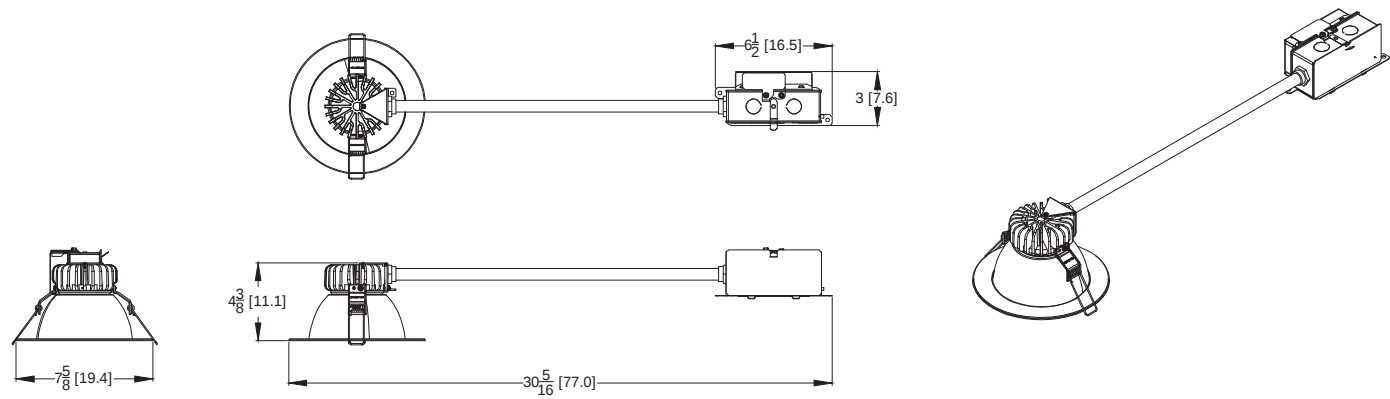
LBR6

* All dimensions are inches (millimeters) unless otherwise noted.

LBR6PFWCP



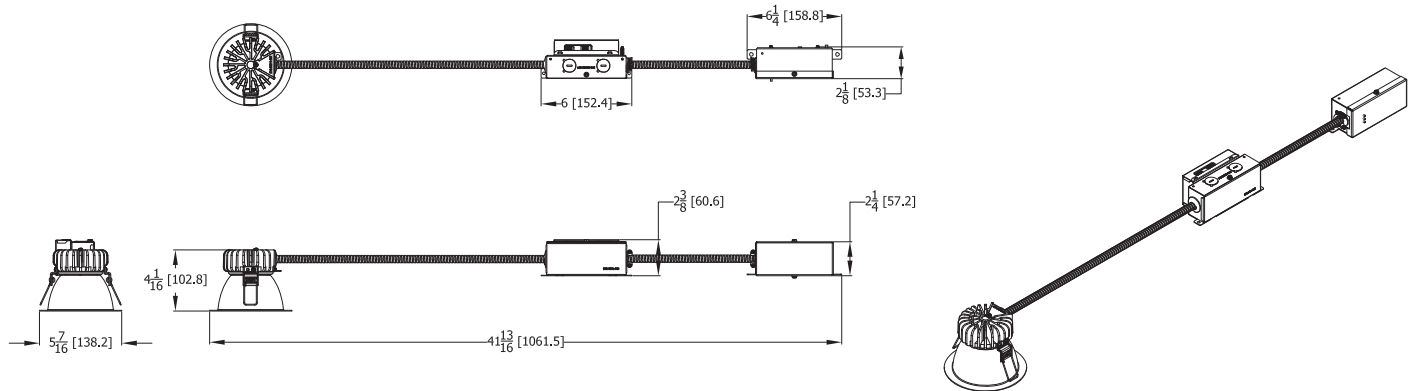
LBR6 SWW1 ALOx MVOLT UGZ CP



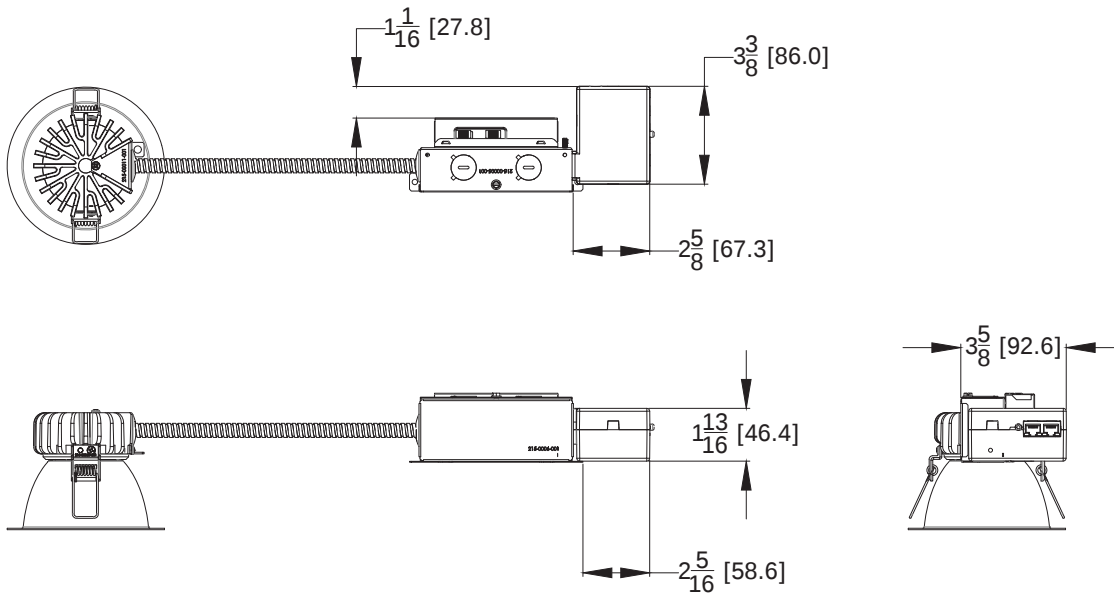
LBR6

* All dimensions are inches (millimeters) unless otherwise noted.

LBR6 AL0x SWW1 xx xxx 347 UGZ



LBRx nLIGHT



PLENUM DEPTH TABLE				
Aperture Size/Output	Plenum Depth*	IC	Non-IC	Non-IC Marked Spacing
LBR6 500-1000 Lumen	3.69	X		
LBR6 1000-2000 Lumen	3.69		X	
LBR6 2000-3000 Lumen	-			24x24x9
LBR6 4000-5000 Lumen	-			24x24x9

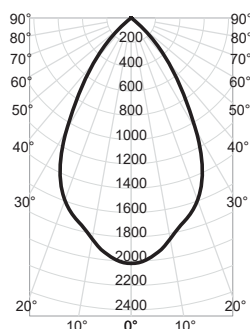
*Above unfinished 1/2" ceiling plane

CEILING COVERAGE TABLE							
Series	Aperture	Trim Flange OD	Min ceiling opening	Ceiling Thickness	Max ceiling opening	Max Ceiling Opening with Goof Ring	Overall Goof Ring OD
LBR6	ROUND	5-5/16"	5-3/4"	1/2"	7-1/8"	7-1/8"	9-1/4"
LBR6				1-1/2"	7-3/8"	7-1/2"	

PHOTOMETRY

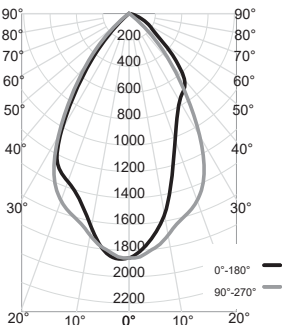
Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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LBR6 SWW1 AL02 AR LSS MWD MVOLT UGZ, Input Watts: 18.1, Delivered Lumens: 1970, LPW: 108.8, S/MH: 0.94, Test No: 20-518-03



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					pf	20%					30%					Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	
	0°	Zone	Lumens	% Fixture	pw	50%	80%	10%	50%	30%	10%	50%	30%	10%						
0°	2,018	0° - 30°	1,292	66%	0	119	119	119	116	116	116	111	111	111	6.0	56.1	7.1	0°	142,862	
5°	1,968	0° - 40°	1,751	89%	1	111	108	106	108	106	104	104	102	101	8.0	31.5	9.5	45°	25,559	
15°	1,721	0° - 60°	1,967	100%	2	102	98	95	101	97	94	98	94	92	10.0	20.2	11.9	55°	1,074	
25°	1,383	0° - 90°	1,970	100%	3	95	90	86	94	89	85	91	87	84	12.0	14.0	14.3	65°	402	
35°	724	90° - 180°	0	0%	4	89	83	78	87	82	78	85	81	77	14.0	10.3	16.7	75°	246	
45°	255	0° - 180°	1,970	100%	5	83	77	72	82	76	72	80	75	71	Beam Angle: 61.5° Field Angle: 92.7°			85°	162	
55°	9				6	77	71	66	76	70	66	75	70	66						
65°	2				7	72	66	62	72	66	61	70	65	61						
75°	1				8	68	62	57	67	61	57	66	61	57						
85°	0				9	64	58	53	63	57	53	62	57	53						
90°	0				10	60	54	50	60	54	50	59	53	50						

LBR6WW SWW1 AL02 AR LSS WW, Input Watts: 18.7, Delivered Lumens: 1981, LPW: 105.9, S/MH: 0.67, Test No: 20-518-A1



CP Summary		Zonal Lumen Summary		Coefficients of Utilization										Luminaire (cd/sq.m)		
	0°	90°	Zone	Lumens	% Fixture	pf	50%	80%	10%	50%	30%	10%	50%	30%	10%	Average Luminaire
0°	1,857	1,857	0° - 30°	1,126	57%	0	119	119	119	116	116	111	111	111	45°	131,472
5°	1,740	1,810	0° - 40°	1,581	80%	1	109	107	104	107	105	102	103	101	55°	50,247
15°	1,265	1,602	0° - 60°	1,915	97%	2	100	96	92	99	94	91	95	92	65°	27,523
25°	864	1,349	0° - 90°	1,981	100%	3	92	87	82	91	86	81	88	84	75°	21,156
35°	719	760	90° - 180°	0	0%	4	85	79	74	84	78	74	82	77	85°	12,281
45°	502	280	0° - 180°	1,981	100%	5	79	72	67	78	72	67	76	70		7,229
55°	223	22				6	73	66	62	72	66	61	71	65		
65°	126	10				7	68	61	57	67	61	56	66	60		
75°	45	4				8	64	57	52	63	57	52	62	56		
85°	9	1				9	59	53	49	59	53	48	58	52		
90°	0	2				10	56	49	45	55	49	45	55	49		

LUMEN OUTPUT MULTIPLIERS - CCT			
3000K	3500K	4000K	5000K
0.98	1.0	1.01	1.03

LUMEN OUTPUT MULTIPLIERS - FINISH	
Clear Semi-spec (AR LSS)	1.0
Metallic Silver (MS)	0.84
White Painted (WR)	1.03
Black Painted (BR)	0.60

LUMEN OUTPUT MULTIPLIERS - CRI	
80	1.0
90	0.874

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at productsupportemergency@acuitybrands.com for any Emergency Battery related questions.

DIMMER COMPATIBILITY

Not compatible with DALI or DMX dimmers. For specific compatible dimmers see below.

LINE VOLTAGE DIMMING:						
Type	Forward Phase	ALO1 (500-1000lm)	ALO2 (1000-2000lm)	ALO3 (2000-3000lm)	ALO4 (3000-5000lm)	Comment
MLV	Sensorswitch WPD	YES	YES	YES	YES	
MLV	Sensorswitch CMR PDT10 ADC VLP	YES	YES	YES	YES	
MLV	Synergy ISD 600LV	YES, 2x *	YES	YES	YES	* min 2 fixtures
INC	Synergy ISD 600 I	YES, 2x *	YES	YES	YES	* min 2 fixtures
MLV	Lutron Glyder GLV-600	YES	YES	YES	YES	
INC	Leviton SureSlide 6633	YES	YES	YES	YES	
MLV	Lutron Diva DVLV-600P	YES	YES	YES	YES	
MLV	Lutron Skylark SLV-600P	YES	YES	YES	YES	
INC	Lutron RadioRA 2 10ND	YES	YES	YES	YES	
MLV	Leviton SureSlide 6613-PLW	YES	YES	YES	YES	
INC	Lutron Diva DVCL-153P	YES	YES	YES	YES	
MLV	Leviton IPM06	YES, 2x *	YES	YES	YES	* min 2 fixtures
INC	Leviton IPI06	YES, 2x *	YES	YES	YES	* min 2 fixtures
INC	Control4 C4-FPD 120	YES	YES	YES	YES	
Type	Reverse Phase Dimmer Bank	ALO1 (500-1000lm)	ALO2 (1000-2000lm)	ALO3 (2000-3000lm)	ALO4 (3000-5000lm)	
ELV	Lutron Nova T NTELV-600	YES	YES	YES	YES	
ELV	Lutron Diva DVELV 600P	YES	YES	YES	YES	
ELV	Lutron Maestro MAELV 600	YES	YES	YES	YES	
ELV	Leviton Vizia VPE06-1LX	YES	YES	YES	YES	
ELV	Leviton Illumatech IPE04	YES	YES	YES	YES	
ELV	Control4 C4-APD 120 REVERSE PHASE	YES	YES	YES	YES	
Type	Miscellaneous Dimmers	ALO1 (500-1000lm)	ALO2 (1000-2000lm)	ALO3 (2000-3000lm)	ALO4 (3000-5000lm)	
PHA	Lutron RadioRA2 RRD-6NA	YES	YES	YES	YES	
PHA	Lutron Maestro PRO LED+ RRD-PRO	YES	YES	YES	YES	
Type	Control Systems	ALO1 (500-1000lm)	ALO2 (1000-2000lm)	ALO3 (2000-3000lm)	ALO4 (3000-5000lm)	
MLV	Lutron LP-RPM-4U	YES	YES	YES	YES	
PHA	Lutron LP-RPM-4A	YES	YES	YES	YES	
MLV	Lutron GRAPHIC EYE QSGRJ-3P	YES	YES	YES	YES	
PHA	Lutron PA Power Module PHPM-PA-120	YES	YES	YES	YES	
ELV	Lutron nLight nSP5PCD ELV	YES	YES	YES	YES	

DIMMER COMPATIBILITY

Not compatible with DALI or DMX dimmers. For specific compatible dimmers see below.

0-10V DIMMING:							
Manufacturer	System Type	Description	P/N	ALO1 (500-1000lm)	ALO2 (1000-2000lm)	ALO3 (2000-3000lm)	ALO4 (3000-5000lm)
ACUITY	Wall Box	sensorswitch, dimming switch with multi-way option	SPODMRA	YES	YES	YES	YES
ACUITY	Wall Box	sensorswitch, wall switch sensor, occupancy controlled dimming	WSX D WH	YES	YES	YES	YES
ACUITY	Control System	nLight	nPP16D	YES	YES	YES	YES
ACUITY	Control System	nLight	nPS 80 EZ	YES	YES	YES	YES
ACUITY	Control System	nLight Air	rPP20 D	YES	YES	YES	YES
Lutron	Other	0-10V (sink or source) PowPak wireless dimming module	RMJ-5T-DV-B	YES	YES	YES	YES
Wattstopper	Control System	Digital single relay room controller (0-10V)	LMRC-211	YES	YES	YES	YES
Crestron	Control System	DIN Rail 0-10V fluorescent dimmer, 4 feeds, 4 channels (Green Light System)	DIN-4DIMFLV4	YES	YES	YES	YES
Lutron	Other	Grafik Eye 0-10V adapter	GRX-TVI	YES	YES	YES	YES
Leviton	Wall Box	Illumatech 0-10V	IP710-DLX	YES	YES	YES	YES
Lutron	Control System	Mounted in the Homeworks QS panel - 0-10V dimmer (sink or source)	GRX-TVM2	YES	YES	YES	YES
Lutron	Wall Box	Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay)	NTFTV	YES	YES	YES	YES
Lutron	Wall Box	Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay)	NTSTV-DV	YES	YES	YES	YES
Lutron	Wall Box	Nova T	NFTV	YES	YES	YES	YES
Leviton	Wall Box	Renior II 0-10V	AWSMG-7DW	YES	YES	YES	YES