

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.

1.0 S/MH standard (wallwash reflector available)

80CRI standard (90CRI optional)

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

100LPW typical

FCC CFR Title 47 Part 15 Class A for lower lumen range. FCC CFR Title 47 Part 15 Class B for higher lumen range.

L80 at 60,000 hours

3 SDCM

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (Wet location, covered ceiling optional). 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 P1006.2.4 compliant for power quality at full output; compliant up to 2000lm at fully dimmed output.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/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

LBR4

4" OPEN



Retrofit | Remodel



New Construction



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: LBR4 ALO2 SWW1 AR LSS MWD MVOLT UGZ 90CRI

Series	Lumens ¹	Color temperature ¹	Reflector Color	Reflector Flange	Reflector Finish
LBR4 4" Retrofit	Adjustable Lumen Output	Switchable CCT	AR Clear	(blank)	LSS Semi-specular
LBR4WW 4" Retrofit Wallwash	ALO1 500/750/1000lm	SWW1 3000K-3500K-4000K-5000K	WR ² White painted	TRW ³ Self-flanged	
	ALO2 1000/1500/2000lm	Fixed CCT	BR ² Black painted	WL ⁷ White painted flange	
	ALO3 2000/2500/3000lm	30K 3000K		TRBL ⁴ Black painted flange	
	Fixed Lumen Output	35K 3500K			
	05LM 500lm	40K 4000K			
	07LM 750lm	50K 5000K			
	10LM 1000lm				
	15LM 1500lm				
	20LM 2000lm				
	25LM 2500lm				
	30LM 3000lm				

Distribution	Voltage	Driver	Options
MWD Medium wide (1.0 s/mh)	MVOLT 120V - 277V	UGZ Universal dimming to 10% 0-10V; line voltage dimming (120V)	90CRI High CRI (90+)
WW ⁵ Wallwash		DALI ⁶ DALI dimming to 1%	AT ⁷ Airtight
			E10WCPR ⁸ Batterypack (10W constant power) T20 Compliant remote test switch
			ELR ⁸ Batterypack (10W constant power) Non-T20 Compliant remote test switch
			EC1 ⁹ Extended Conduit (18")
			EC6 ⁹ Extended Conduit (6ft)
			WL ⁷ Wet Location (IP55)
			QDS ¹⁰ Quick disconnect plugs
			CP ¹¹ Chicago Plenum

New Construction Frames: Order as separate catalog number. Shipped separately.	
LBR4PFW	4" New construction frame with JBOX, 18" conduit
LBR4PFWQDS	4" New construction frame with JBOX, 18" conduit, quick disconnects
LBR4PFWCP	4" Chicago Plenum New construction frame with JBOX, 18" conduit

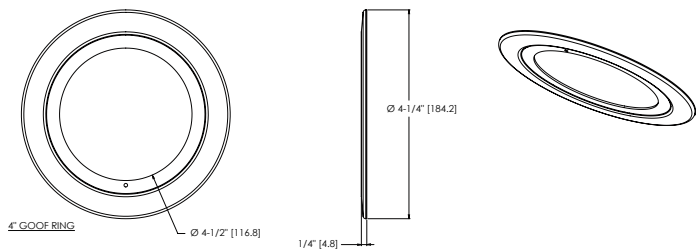
Notes

- Fixed CCT and lumens must be specified together (for example: 10LM 30K).
- Not available with reflector finish.
- For use with Clear (AR) reflector finish only. Not applicable with WR (white reflector).
- For use with Clear (AR) reflector finish only. Not applicable with BR (Black reflector).
- Only available with WW Series (for example LBR4WW).
- Not available with Fixed CCT and lumens.
- Not available with wallwash (WW).
- Top access installation or 17.5" plenum clearance required for roomside installation
- Not available with QDS, ELR and E10WCPR.
- QDS not available with emergency battery packs.
- CP not available with DALI, battery packs, EC1, EC6, or QDS.
- Field installed. Top access installation required.

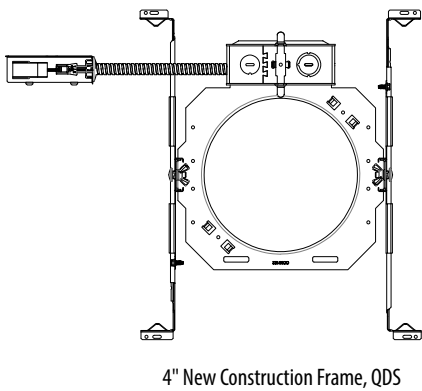
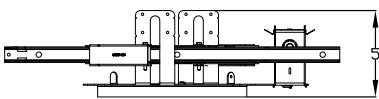
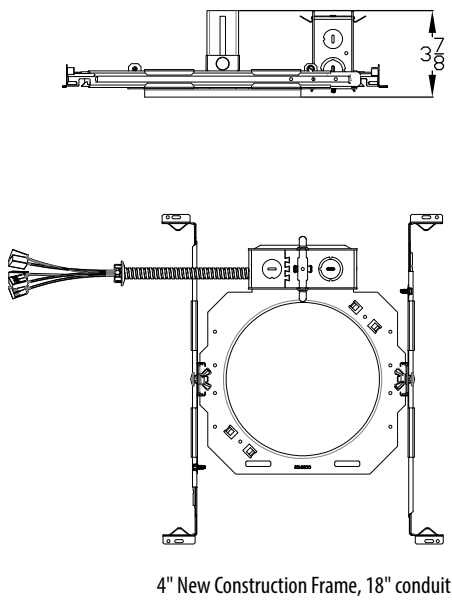
LBR4

Accessories: Order as separate catalog number. Shipped separately.	
LBRGR56	Goof ring 5-3/4" to 6-3/4" for LBR4
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
NPP16 D EFP ¹²	Field installed nLight Power Pack

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



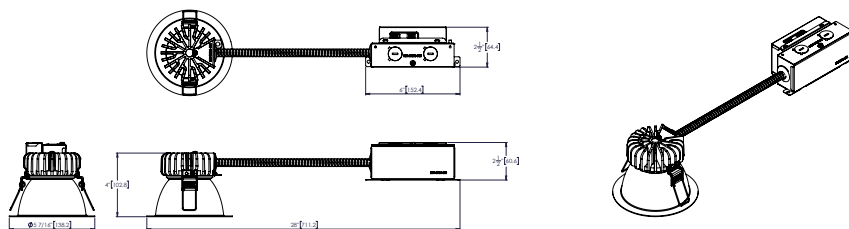
* All dimensions are inches (millimeters) unless otherwise noted.



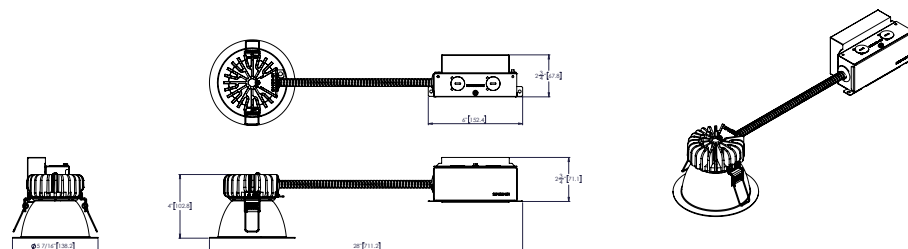
Aperture Size	Ceiling Cutout
4 In	5-1/8"

LBR4

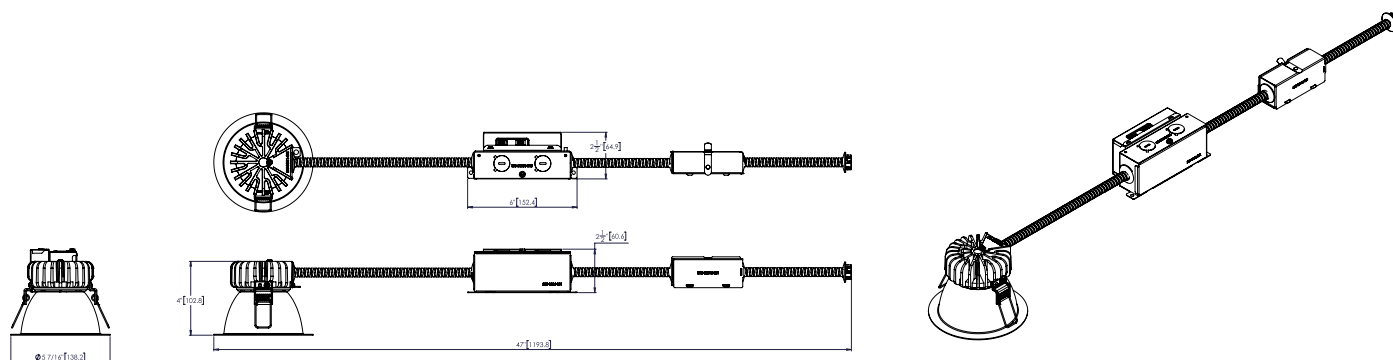
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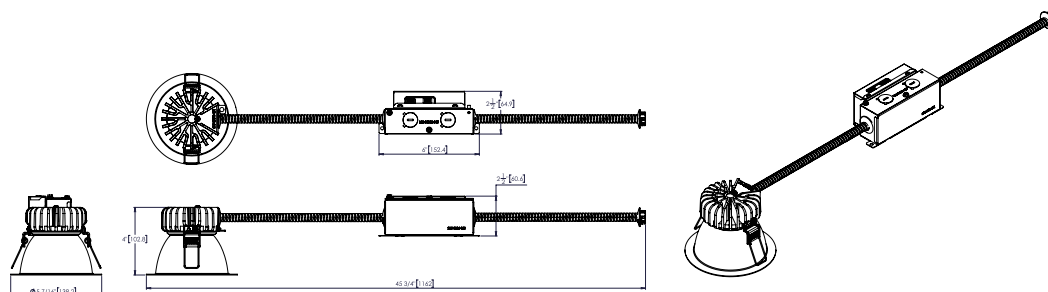
LBR4 SWW1 AL0x xx xxx MVOLT UGZ



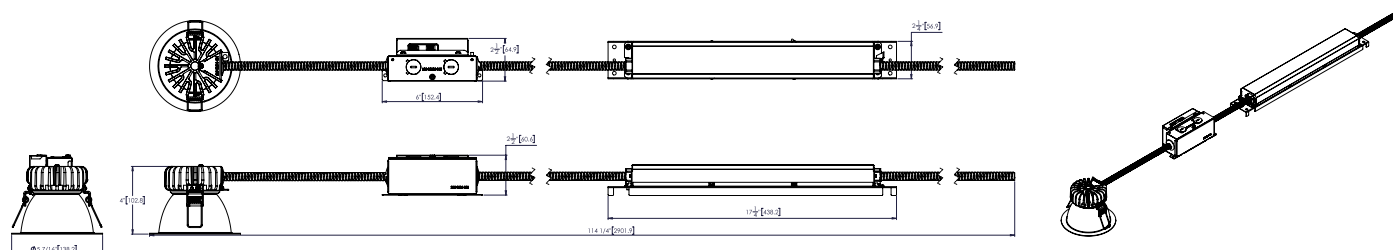
LBR4 SWW1 AL01/2 xx xxx MVOLT DALI



LBR4 SWW1 AL0x xx xxx MVOLT UGZ QDS



LBR4 SWW1 AL0x xx xxx MVOLT UGZ EC1

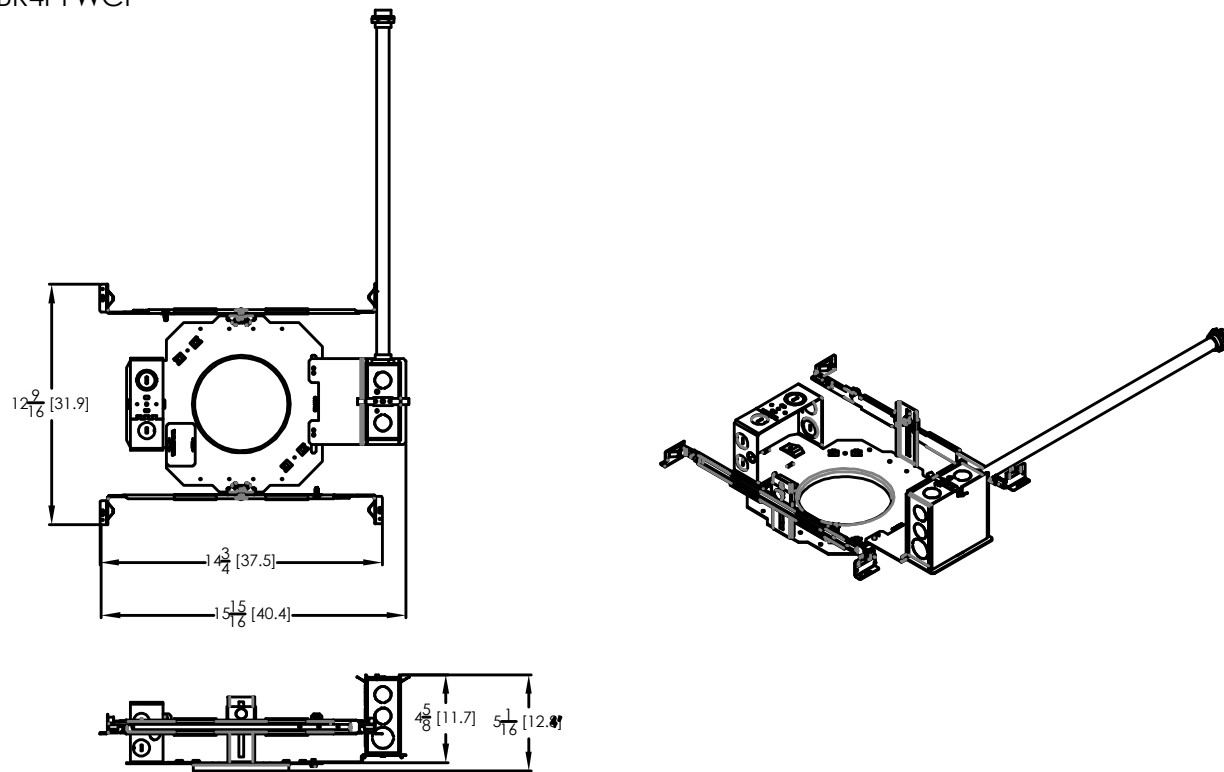


LBR4 SWW1 AL0x xx xxx MVOLT UGZ ELR

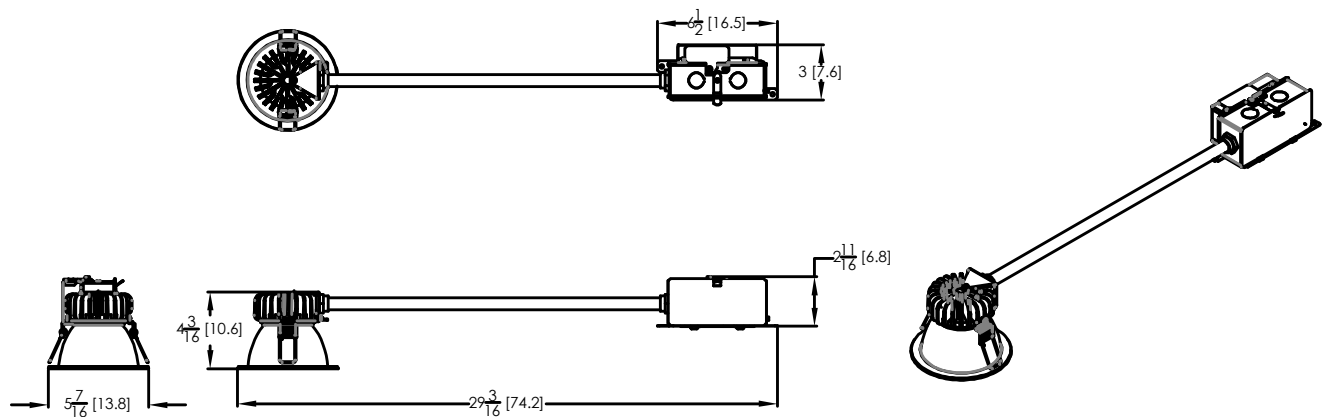
LBR4

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LBR4PFWCP



LBR4 SWW1 AL0x MVOLT UGZ CP

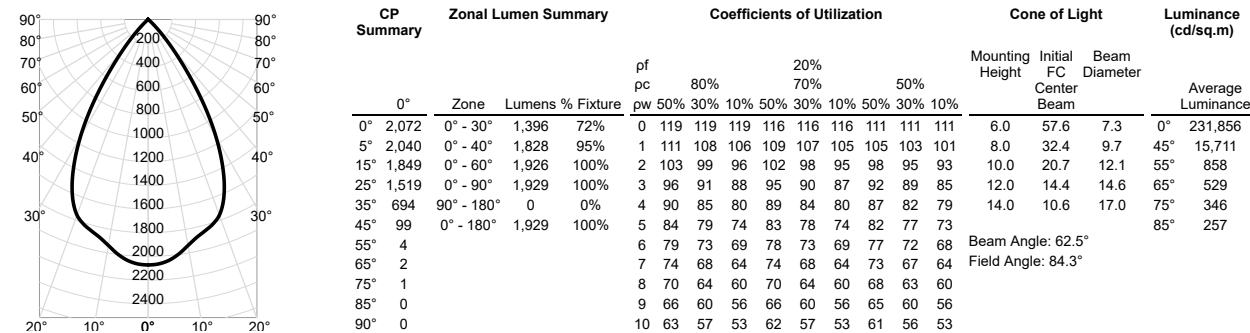


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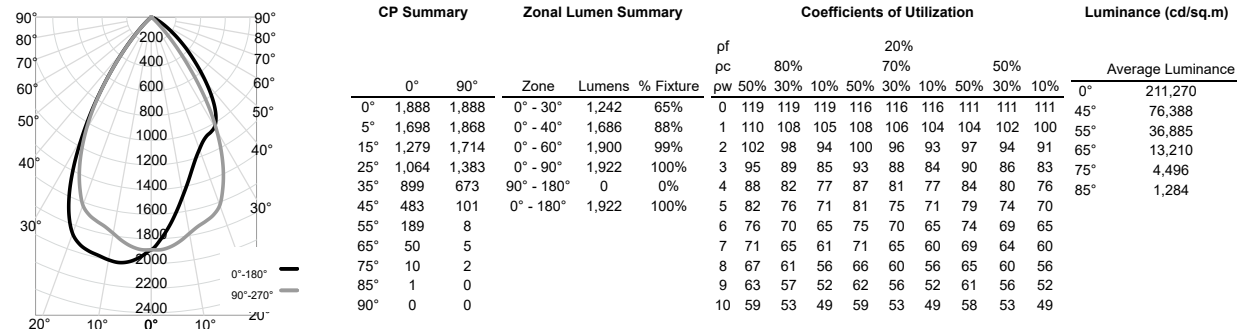
PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
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LBR4 SWW1 AL02 AR LSS MWD MVOLT UGZ, Input Watts: 18.1, Delivered Lumens: 1929, LPW: 106.6, S/MH: 0.98, Test No: 20-518-01



LBR4WW SWW1 AL02 AR LSS WW MVOLT UGZ, Input Watts: 18.1, Delivered Lumens: 1922, LPW: 106.2, S/MH: 0.73, Test No: 20-518-02



LBR ROUND LUMEN TABLES

LBR4		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	99.0	584	100.6	597	102.5	616	104.9
AL01 (750LM)	9	903	101.6	924	103.2	946	105.1	975	107.6
AL01 (1000LM)	13	1268	98.3	1297	99.8	1328	101.7	1369	104.1
AL02 (1000LM)	13	1344	108.2	1375	110.0	1408	112.0	1451	114.6
AL02 (1500LM)	19	1961	104.7	2007	106.4	2055	108.3	2118	110.9
AL02 (2000LM)	25	2471	99.4	2528	101.0	2588	102.9	2668	105.3
AL03 (2000LM)	25	2542	102.8	2601	104.5	2663	106.4	2745	108.9
AL03 (2500LM)	32	3069	97.7	3140	99.3	3214	101.1	3314	103.5
AL03 (3000LM)	38	3485	92.9	3566	94.4	3651	96.2	3764	98.4

LBR4WW		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	561	97	574	99	587	101	606	103
AL01 (750LM)	9	888	100	908	101	930	103	959	106
AL01 (1000LM)	13	1246	97	1275	98	1305	100	1346	102
AL02 (1000LM)	13	1321	106	1352	108	1384	110	1427	113
AL02 (1500LM)	19	1928	103	1973	105	2020	106	2083	109
AL02 (2000LM)	25	2429	98	2485	99	2544	101	2623	104
AL03 (2000LM)	25	2499	101	2557	103	2618	105	2699	107
AL03 (2500LM)	32	3017	96	3087	98	3160	99	3258	102
AL03 (3000LM)	38	3426	91	3506	93	3589	95	3700	97

		90CRI							
Lumen Output	Wattage	30K/90CRI		35K/90CRI		40K/90CRI		50K/90CRI	
		Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
AL01 (500LM)	6	498	86.5	512	88.3	526	90.1	539	91.8
AL01 (750LM)	9	789	88.8	810	90.6	832	92.5	853	94.1
AL01 (1000LM)	13	1108	85.9	1138	87.6	1168	89.4	1198	91.1
AL02 (1000LM)	13	1174	94.6	1206	96.5	1238	98.5	1270	100.3
AL02 (1500LM)	19	1714	91.5	1761	93.3	1807	95.3	1854	97.0
AL02 (2000LM)	25	2159	86.9	2218	88.6	2276	90.5	2335	92.1
AL03 (2000LM)	25	2222	89.8	2282	91.6	2342	93.6	2402	95.3
AL03 (2500LM)	32	2682	85.4	2755	87.1	2827	88.9	2900	90.6
AL03 (3000LM)	38	3046	81.2	3129	82.9	3211	84.6	3294	86.1

		90CRI							
Lumen Output	Wattage	30K/90CRI		35K/90CRI		40K/90CRI		50K/90CRI	
		Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW	Delivered Lumens	LPW
AL01 (500LM)	6	490	85	503	87	517	89	530	90
AL01 (750LM)	9	776	87	797	89	818	91	839	93
AL01 (1000LM)	13	1089	84	1119	86	1148	88	1178	90
AL02 (1000LM)	13	1155	93	1186	95	1217	97	1248	99
AL02 (1500LM)	19	1685	90	1731	92	1777	94	1822	95
AL02 (2000LM)	25	2123	85	2180	87	2238	89	2295	91
AL03 (2000LM)	25	2184	88	2243	90	2302	92	2362	94
AL03 (2500LM)	32	2637	84	2708	86	2780	87	2851	89
AL03 (3000LM)	38	2994	80	3076	81	3157	83	3238	85

LBR4

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

LUMEN OUTPUT MULTIPLIERS - FINISH	
Specular (LS)	1.00
White (WR)	1.03
Black (BR)	0.60

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

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

Delivered Lumens = 1.25 x P x LPW

P = Ouput 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](#).

PLENUM DEPTH TABLE				
Aperture Size/Output	PLENUM DEPTH*	IC	NON-IC	NON-IC MARKED SPACINGS
LBR4 500-1000 LM	3.44	X		
LBR4 1000-2000 LM	3.44			
LBR4 2000-3000 LM	3.44			24 x 24 x 9

*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
LBR4	ROUND	4-1/4"	5-7/16"	4-1/2"	1/2"	5-1/8"	5-1/8"	7-1/4"
LBR4					1-1/2"		5-3/4"	

DIMMER COMPATIBILITY

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

LINE VOLTAGE DIMMING:					
Type	Forward Phase	S (500-1000lm)	M (1000-2000lm)	L (2000-3000lm)	Comment
MLV	Lutron Glyder GLV-600	YES	YES	YES	
INC	Leviton SureSlide 6633	YES	YES	YES	
MLV	Lutron Diva DVLV-600P	YES	YES	YES	
MLV	Lutron Skylark SLV-600P	YES	YES	YES	
INC	Lutron RadioRA 2 10ND	YES	YES	YES	
MLV	Leviton SureSlide 6613-PLW	YES	YES	YES	
INC	Lutron Diva DVCL-153P	YES	YES	YES	
MLV	Leviton IPM06	YES, 2x *	YES	YES	* min 2 fixtures
INC	Leviton IPI06	YES, 2x *	YES	YES	* min 2 fixtures
MLV	Synergy ISD 600LV	YES, 2x *	YES	YES	* min 2 fixtures
INC	Synergy ISD 600 I	YES, 2x *	YES	YES	* min 2 fixtures
INC	Control4 C4-FPD 120	YES	YES	YES	
Type	Reverse Phase Dimmer Bank	S (500-1000lm)	M (1000-2000lm)	L (2000-3000lm)	
ELV	Lutron Nova T NTELV-600	YES	YES	YES	
ELV	Lutron Diva DVELV 600P	YES	YES	YES	
ELV	Lutron Maestro MAELV 600	YES	YES	YES	
ELV	Leviton Vizia VPE06-1LX	YES	YES	YES	
ELV	Leviton Illumatech IPE04	YES	YES	YES	
ELV	Control4 C4-APD 120 REVERSE PHASE	YES	YES	YES	
Type	Miscellaneous Dimmers	S (500-1000lm)	M (1000-2000lm)	L (2000-3000lm)	
PHA	Lutron RadioRA2 RRD-6NA	YES	YES	YES	
PHA	Lutron Maestro PRO LED+ RRD-PRO	YES	YES	YES	
Type	Control Systems	S (500-1000lm)	M (1000-2000lm)	L (2000-3000lm)	
MLV	Lutron LP-RPM-4U	YES	YES	YES	
PHA	Lutron LP-RPM-4A	YES	YES	YES	
MLV	Lutron GRAPHIC EYE QSGRJ-3P	YES	YES	YES	
PHA	Lutron PA Power Module PHPM-PA-120	YES	YES	YES	
ELV	Lutron nLight nSP5PCD ELV	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	S (500-1000lm)	M (1000-2000lm)	L (2000-3000lm)
Lutron	Other	0-10V (sink or source) PowPak wireless dimming module	RMJ-5T-DV-B	YES	YES	YES
Wattstopper	Control System	Digital single relay room controller (0-10V)	LMRC-211	YES	YES	YES
Crestron	Control System	DIN Rail 0-10V fluorescent dimmer, 4 feeds, 4 channels (Green Light System)	DIN-4DIMFLV4	YES	YES	YES
Lutron	Other	Grafik Eye 0-10V adapter	GRX-TVI	YES	YES	YES
Leviton	Wall Box	Illumatech 0-10V	IP710-DLX	YES	YES	YES
Lutron	Control System	Mounted in the Homeworks QS panel - 0-10V dimmer (sink or source)	GRX-TVM2	YES	YES	YES
Lutron	Wall Box	Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay)	NTFTV	YES	YES	YES
Lutron	Wall Box	Nova 0-10V wallbox dimmer (use with PP-120-H line voltage relay)	NTSTV-DV	YES	YES	YES
Lutron	Wall Box	Nova T	NFTV	YES	YES	YES
Leviton	Wall Box	Renior II 0-10V	AWSMG-7DW	YES	YES	YES
ACUITY	Wall Box	sensorswitch, wall switch sensor, occupancy controlled dimming	WSX D WH	YES	YES	YES
ACUITY	Control System	nLight	nPP16D	YES	YES	YES
ACUITY	Control System	nLight	nPS 80 EZ	YES	YES	YES
ACUITY	Control System	nLight Air	rPP20 D	YES	YES	YES