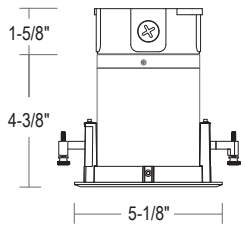
TYPE PROJECT

CATALOG#

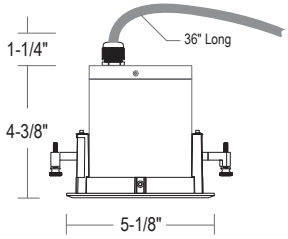
DL34R2 : 4" ROUND VANDAL RESISTANT RECESSED DOWNLIGHT (IP65/IP67)

1000LM/1500LM (10W/15W)

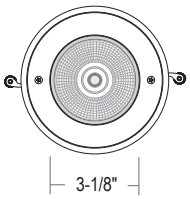


Shown with **Junction Box** Option (-JB)

Ceiling Cut-Out: 4-3/8"
Ceiling Thickness: 1-1/4" Max with thumb screws
1-1/2" Max without thumb screws



Supplied with 36" Long Power Cord, Other Lengths Available, Consult Factory



- Remote Emergency Available
- IP65 Standard, IP67 Rated Option
- Tamper Resistant Fasteners
- IK08 option available with Polycarbonate Lens
- Multiple Wireless Control Options
- Integral J-Box Option

ORDERING : DL34R2W-L15-B10

Finish | Lumens | Beam Spread | Control | Color Temperature | Emergency Options | Options

Finish

White	**DL34R2W**
Silver	**DL34R2S[2]**
Bronze	**DL34R2BZ[2]**
Black	**DL34R2B**
Light Silver	**DL34R2LS[2]**
Dark Grey	**DL34R2DG[2]**
Metallic Gold	**DL34R2MG[2]**
Metallic Black	**DL34R2MB[2]**

Lumens

1000lm (10W)	**Blank**
1500lm (15W)	**-L15**

Beam Spread

Wide Flood	**Blank**
Narrow Spot	**-B10**
Spot	**-B20**
Flood	**-B45**
Wall Wash Optics	**-BWW**
Asymmetric	**-B3060[1]**

Control

Non-Dimming (120V)	**Blank**
UniDim (120V/277V)	**UE-DUN**
0-10V (120V/277V)	**UE-D10**
ELV and Triac (120V)	**-DIN**
0-10V 1% (120V/277V)	**UE-D10P1**
UniSense - Integral Motion/ Photosensor (120V)	**SUN-INT[1,5]**
UniSense - Integral Motion/ Photosensor (120V/277V)	**SUN-INT-1227[1,5]**
Casambi Wireless Dimming (120V/277V)	**-DCSM[1]**
BubblyNet Wireless System (120V/277V)	**-DBNT[1]**
SimplySnap Wireless System (120V/277V)	**-DSYN[1,5]**

Color Temperature

4000K (90 CRI)	**Blank**
2700K (90 CRI)	**-T27**
2700K (97CRI)	**-T27-C97**
3000K (90 CRI)	**-T30**
3000K (97CRI)	**-T30-C97**
3500K (90 CRI)	**-T35**
5000K (80 CRI)	**-T50**
RGB+W Control (24VDC)	**-RGBWV24[4]**
590nm Amber (Turtle Safe)	**-TAM-LVR**

Emergency Options

None	**Blank**
Remote Location Emergency Inverter	**-EMAC[6]**

Options

None	**Blank**
Hex-Cell Louver	**-LVR**
Frosted Lens	**-FR**
Cold Weather	**-CW[3]**
Marine Grade Finish	**-MGD[2]**
IK08 Impact Rated Polycarbonate Lens	**-IK08[1]**
Integral Junction Box	**-JB**
Surge Protector	**-SRG**
72" Long Power Cord	**-CRD72**
IP67 Rated	**-IP67[1]**

[1] Special order. Minimum Order, Extended lead time may apply. Consult Factory.
[2] Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.
[3] Starting temperature for -CW option -40°C/-40°F; see pg. 7.
[4] Remote Power Supplies and Control Gear Required, Available with Wireless Bluetooth or DMX Control. See pg. 4 or consult factory for details.
[5] Must be ordered with (-JB).
[6] (-EMAC) is not compatible with (-CW) option.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

SPECIFICATION

Application

Architectural-grade recessed LED downlight housing for medium to high ceilings combines energy effeciency with powerful lumen output. Perfect for atriums, churches, lobbies, and airports that have high ceilings.

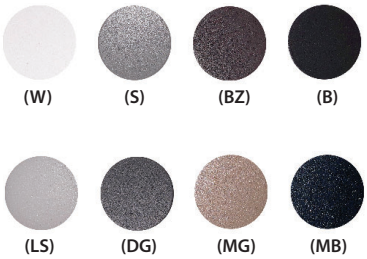
Housing

Housing is constructed from a round one piece high grade aluminum extrusion. (Alloy 6061<04% Cu). Faceplate (with a tempered glass lens) and top cap are of a robust die-cast aluminum alloy and seal the housing (top and bottom) using silicone gaskets

Mounting:

Housing suitable for existing or new construction installation. Supplied with screw down mounting clips, designed to secure the fixture to an existing flat surface. Mounting Pan with hanger bars are available. Consult Factory.

Finish:



A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information).

Standard Finishes:

White:	*RAL 9003*	(W)
Silver:	*RAL 7037*	(S)
Bronze:	*RAL 8019*	(BZ)
Black:	*RAL 9005*	(B)

Special Order Finishes:

Light Silver:	*RAL 7036*	(LS)
Dark Gray:	*RAL 7015*	(DG)
Metallic Gold:	*RAL 1001*	(MG)
Metallic Black:	*RAL 7021*	(MB)

Marine Grade:

The fixture features a marine-grade textured powder coat finish engineered to withstand extreme environmental conditions, including prolonged exposure to UV radiation, salt air, and moisture, which are prevalent in coastal and high-humidity environments.

A multi-stage surface preparation, finishing, and curing process ensures maximum adhesion, durability, and corrosion resistance. The coating system undergoes rigorous salt spray (ASTM B117) testing, overbake resistance verification, and pencil hardness testing to validate its robustness against degradation.

The marine-grade powder coat is applied as a 30–50 µm bottom layer, providing a strong anti-corrosion foundation. This is further enhanced by a surface coat using a standard architectural-grade powder application with a total thickness of 80–120 µm, ensuring superior resistance to wear, impact, and environmental stressors.

Certifications and Listings:

ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65 Standard, IP67 Option Available)

Assembled in USA.

IK08 rated for impact resistance..

SPECIFICATION (Continued)

Caution: LITON recommends use of surge protectors on the power entering light fixture.

Airflow

IP65 Airtight design restricts air flow from room into plenums in compliance to WSEC - Washington State Energy Code, (Less than 2.0 CFM-Cubic Feet per Minute).

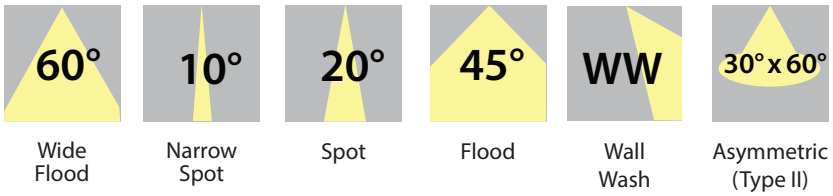
Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 50°C/122°F. Doing so will result in reduced lamp life and voided warranty.

Optics

Multifaceted aluminum reflector produces low glare illumination with multiple light control options.

Standard Beam: Used for maximum light output and visible field angle.



Wide Flood | Narrow Spot | Spot | Flood | Wall Wash | Asymmetric (Type II)

LED

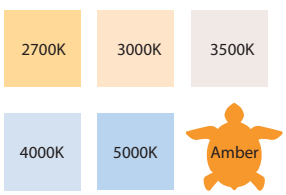
COB (Chip on Board) singular LED light source provides for smooth, uniform light output, eliminating the imaging produced by multiple LED source optics.

Lumen Maintenance: Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Lumen Options (Nominal):

1000lm (10W) (Blank)	2200lm (22W) (-L20)
1500lm (15W) (-L15)	2600lm (30W) (-L26)

Color Temperature: Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.



COLOR TEMP:	2700K	3000K	3500K	4000K	5000K
CRI:	90, 97	90, 97	90	90	80

Amber: 590nm (Turtle Safe)

SPECIFICATION (Continued)

RGB+W:

RGB+W

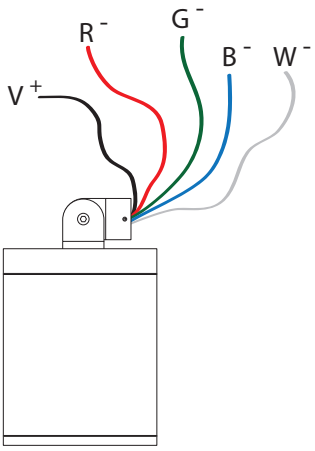
CASAMBI

15W RGBW LED Module Illuminates surfaces up to 10 feet away. Used for applications desiring a dynamic color changing effect. RGB+W design allows fine-tuned pastel colors and saturated hues without sacrificing illumination brightness. Can be set for static colors or dynamic shows. Multiple control options available with either CASAMBI Wireless Bluetooth control or DMX 512 remote mounted decoders.

On-site commissioning and programing available.

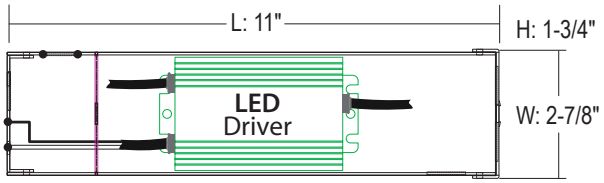
Consult Factory for Layout Assistance and Lead Times.

COLOR	CCT/WAVELENGTH	POWER
Red	640nm	3.1W
Green	520nm	3.1W
Blue	450nm	3.1W
White	2700K	3.1W



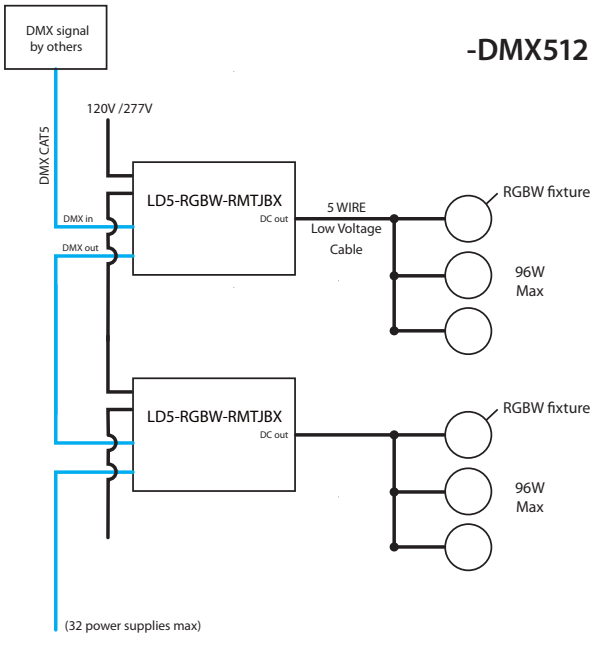
WIRED

Remote Power Supply	Controls		Wattage	
LD5-RGBW-RMTJBX	Remote Mounted Decoder	**-DMX512**	15W	**-W15**
	Wireless Bluetooth Control	**-CASAMBI**	30W	**-W30**
			60W	**-W60**
			96W	**-W96**

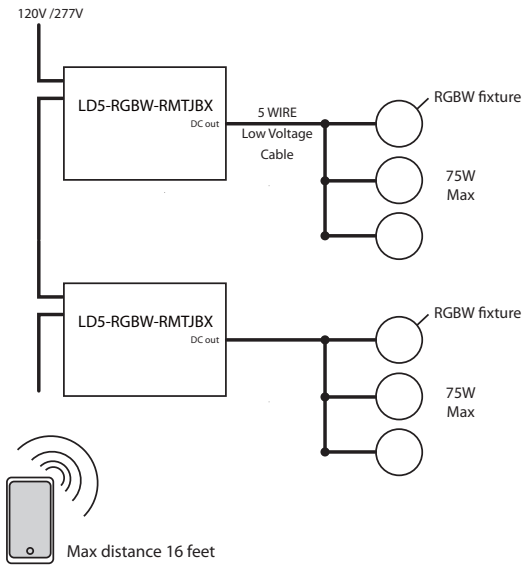


Junction Box Dimensions: 11" x 2-7/8" x 1-3/4" (LxWxH)

-DMX512



-CASAMBI



NOTE: Power supply must be placed in dry locations only. 100 feet max for 5 wire low voltage cable 18AWG.

SPECIFICATION (Continued)

Emergency Options

Emergency LED Battery Back-up available, remotely mounted adjacently by the installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the driver to auxiliary generator power during the loss of normal AC power, (recommended for applications requiring individual circuit switching).

FULL POWER EMERGENCY INVERTER (-EMAC: 10W - 15W)

- Must be installed in Dry Locations
- Wattage package will determine if 25W or 40W battery gets sent; corresponding wiring diagrams below
- 170 VDC output to AC DRIVER during EM mode

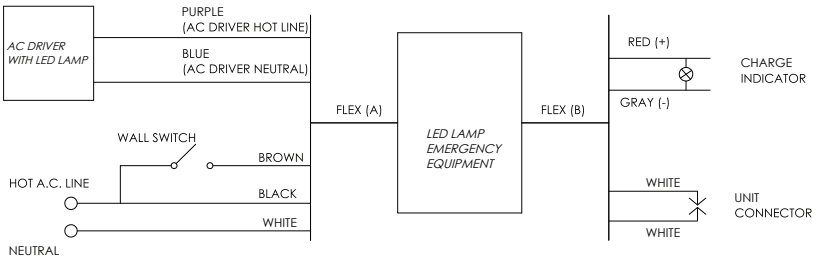
Not rated for outdoor mounting. Damp location rated.

-EMAC Lumen Data (Battery)

Fixture/Trim	DL34R2
Fixture Wattage:	10W
Fixture Lumens:	1000lm
EM Lumens:	1000lm

Fixture/Trim	DL34R2-L15
Fixture Wattage:	15W
Fixture Lumens:	1500lm
EM Lumens:	1500lm

<25W LOAD

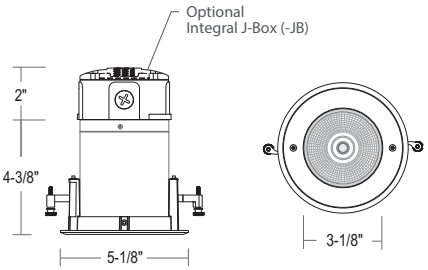


Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	25W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Self-Diagnostic:	No

SPECIFICATION (Continued)

Additional Options

Optional J-Box (Direct Conduit Entry):



For use with mounting locations without a recessed junction box.
Factory installed outlet box with five (5) 1/2 NPSM trade conduit holes and plugs (1 top, 4 sides) for 1/2 in. trade conduit and wire entry.

Configure as:
-JB: (5) conduit entry from left or right looking at fixture

Surge Suppressor (/SRG):

Protects driver against surges in line voltage/current (20KV, 1.2/50µS & 10KA, 8/20µS).

Provides a positive indication of end-of-life by opening voltage to the load.

Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.

SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted. Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature:
Standard: -10°C/14°F
Cold Weather Option: (-CW) -40°C/-40°F

Control Options

ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

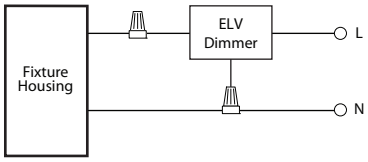
0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

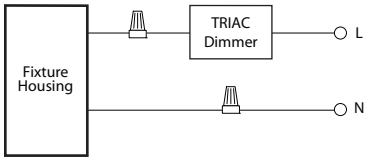
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

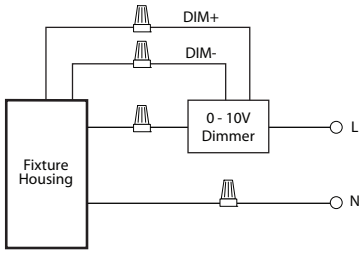
Incandescent/Phase Wiring
ELV



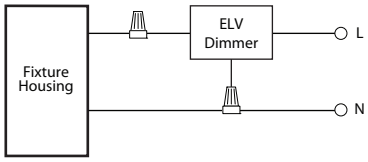
TRIAC



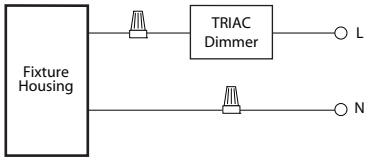
0 - 10V Wiring



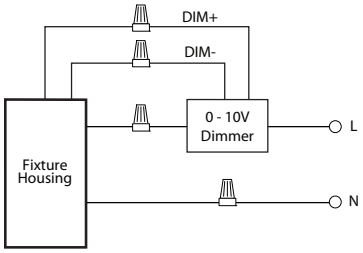
Incandescent/Phase Wiring
ELV



TRIAC



0 - 10V Wiring

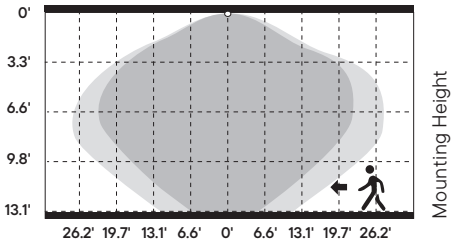


SPECIFICATION (Continued)

Unisense™ PROGRAMMABLE MOTION + DAYLIGHT (-SUN-INT, -SUN-INT-1227)

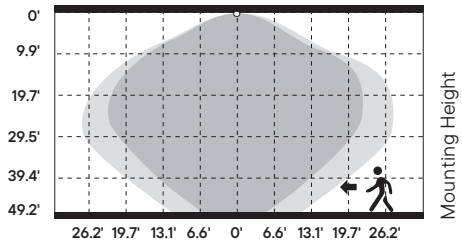
- Microwave and PIR (Passive Infrared) sensors depending on option
- Daylight harvesting
- Dusk/dawn sensing capabilities
- Motion Sensor

13' Height

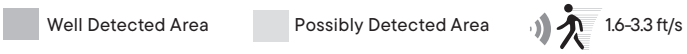


13.1 ft max. distance with 100% sensitivity

50' Height



49.2 ft max. distance with 100% sensitivity



DL34R2 : 4" ROUND VANDAL RESISTANT RECESSED DOWNLIGHT (IP67)

1000LM/1500LM (10W/15W)

PHOTOMETRY – DL34R2 (L15)

Footcandle Distribution Cone Charts

STANDARD BEAM – WIDE FLOOD (Blank)

Height	Beam Diameter	Footcandle (FC)*
6.0'	7.9'	31.1
8.0'	10.5'	17.5
10.0'	13.1'	11.2
12.0'	15.8'	7.8
14.0'	18.4'	5.7

*at center of beam

STANDARD BEAM – NARROW SPOT (-B10)

Height	Beam Diameter	Footcandle (FC)*
6.0'	1.2'	457.1
10.0'	2.0'	164.6
14.0'	2.7'	84.0
18.0'	3.5'	50.8
20.0'	3.9'	41.1

*at center of beam

STANDARD BEAM – SPOT (-B20)

Height	Beam Diameter	Footcandle (FC)*
6.0'	2.1'	169.5
8.0'	2.8'	95.3
10.0'	3.5'	61.0
12.0'	4.1'	42.4
14.0'	4.8'	31.1

*at center of beam

STANDARD BEAM – FLOOD (-B45)

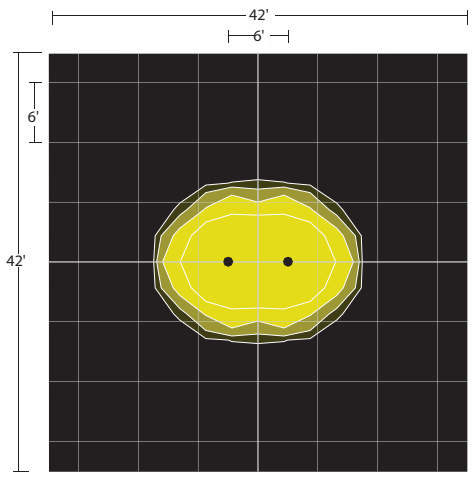
Height	Beam Diameter	Footcandle (FC)*
6.0'	3.8'	74.9
8.0'	5.1'	42.1
10.0'	6.4'	27.0
12.0'	7.6'	18.7
14.0'	8.9'	13.8

*at center of beam

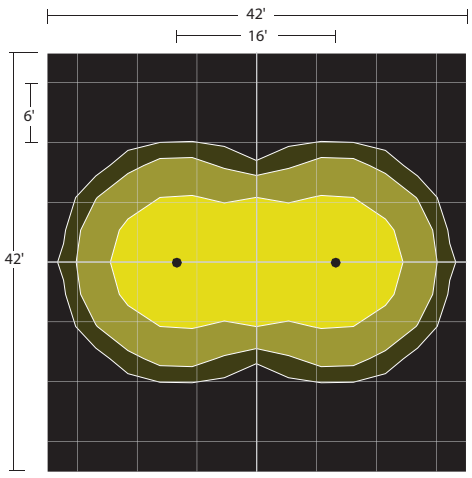
Footcandles On Ground (2 - Fixture Overlap)

5.0 fc 2.0 fc 1.0 fc .5 fc

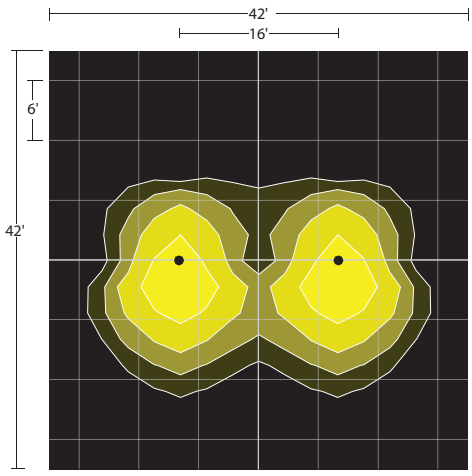
STANDARD BEAM – WIDE FLOOD (Blank)
8' Mounting



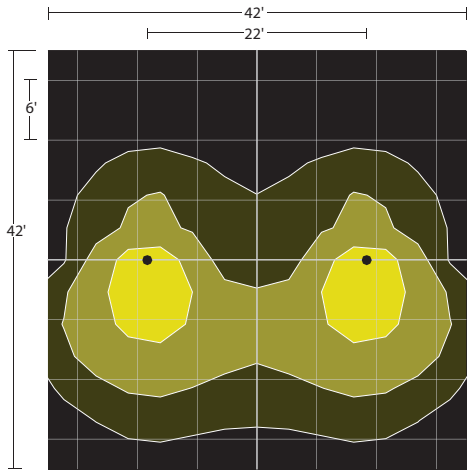
STANDARD BEAM – WIDE FLOOD
16' Mounting



SPECIALTY BEAM – TYPE IV (-BIV)
8' Mounting



SPECIALTY BEAM – TYPE IV (-BIV)
16' Mounting



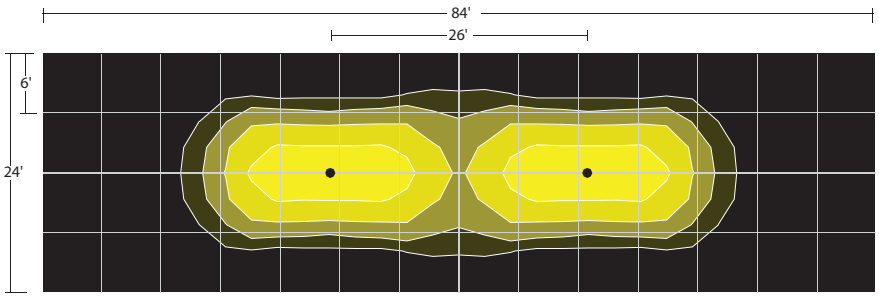
2023.07.17

PHOTOMETRY – DL34R2 (L15) (Cont.)

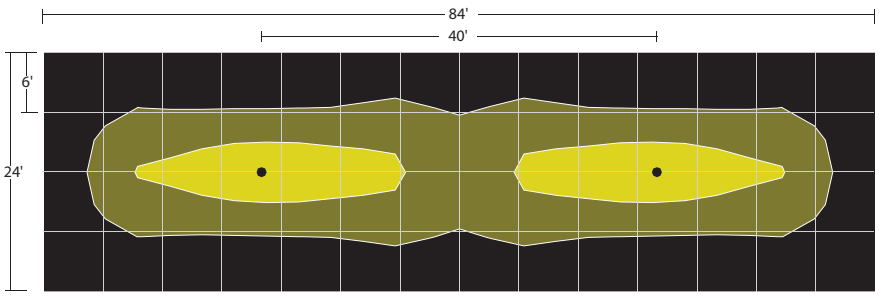
Footcandles On Ground (2 - Fixture Overlap)

5.0 fc 2.0 fc 1.0 fc .5 fc

SPECIALTY BEAM – TYPE II (-BII)
8' Mounting



SPECIALTY BEAM – TYPE II (-BII)
16' Mounting



LUMEN OUTPUT / LPW /BUG RATING

LM	W	Beam Spread	-T27 (2700K, 90 CRI)						-T30 (3000K, 90 CRI)						-T35 (3500K, 90 CRI)						Blank (4000K, 90 CRI)						-T50 (5000K, 80 CRI)					
			LM	LPW	cd	B	U	G	LM	L/W	cd	B	U	G	LM	LPW	cd	B	U	G	LM	LPW	cd	B	U	G	LM	LPW	cd	B	U	G
1000 lm	13.9	Wide Flood	760	55	1008	1	0	0	791	57	1050	1	0	0	802	58	1064	1	0	0	804	58	1066	1	0	0	958	69	1271	1	0	0
		-B02	175	13	567	0	0	0	182	13	590	0	0	0	184	13	598	0	0	0	185	13	600	0	0	0	220	16	715	0	0	0
		-CB20	362	26	839	1	0	0	377	27	874	1	0	0	382	27	886	1	0	0	383	28	888	1	0	0	456	33	1058	1	0	0
		-CB35	458	33	760	1	0	0	476	34	792	1	0	0	483	35	803	1	0	0	484	35	804	1	0	0	577	41	958	1	0	0
		-B10	1061	76	16461	1	0	0	1104	79	17138	1	0	0	1120	81	17378	1	0	0	1122	81	17410	1	0	0	1337	96	20748	1	0	0
		-B20	943	68	6023	1	0	0	981	71	6270	1	0	0	995	72	6358	1	0	0	997	72	6370	1	0	0	1188	85	7591	1	0	0
		-B45	926	67	2344	1	0	0	964	69	2440	1	0	0	977	70	2475	1	0	0	979	70	2479	1	0	0	1167	84	2954	1	0	0
		-BII	854	61	927	1	0	0	889	64	966	1	0	0	901	65	979	1	0	0	903	65	981	1	0	0	1076	77	1169	1	0	0
		-BWW	605	43	713	1	0	0	629	45	743	1	0	0	638	46	753	1	0	0	639	46	754	1	0	0	762	55	899	1	0	0
		-BIV	605	43	713	1	0	0	629	45	743	1	0	0	638	46	753	1	0	0	639	46	754	1	0	0	762	55	899	1	0	0
-L15 (1500 lm)	13.9	Wide Flood	1075	77	789	1	0	0	1119	81	821	1	0	0	1135	82	833	1	0	0	1137	82	835	1	0	0	1355	97	995	1	0	0
		-B02	236	17	429	0	0	0	246	18	447	0	0	0	249	18	453	0	0	0	250	18	454	0	0	0	297	21	541	0	0	0
		-CB20	501	36	655	1	0	0	522	38	682	1	0	0	529	38	691	1	0	0	530	38	693	1	0	0	632	45	825	1	0	0
		-CB35	638	46	594	1	0	0	664	48	619	1	0	0	673	48	627	1	0	0	675	49	628	1	0	0	804	58	749	1	0	0
		-B10	1303	94	11204	1	0	0	1356	98	11665	1	0	0	1375	99	11828	1	0	0	1378	99	11850	1	0	0	1642	118	14122	1	0	0
		-B20	1316	95	4320	1	0	0	1370	99	4498	1	0	0	1389	100	4561	1	0	0	1392	100	4569	1	0	0	1659	119	5445	1	0	0
		-B45	1285	92	2494	1	0	0	1338	96	2597	1	0	0	1356	98	2633	1	0	0	1359	98	2638	1	0	0	1620	117	3144	1	0	0
		-BII	1235	89	754	1	0	0	1286	93	784	1	0	0	1304	94	795	1	0	0	1307	94	797	1	0	0	1557	112	950	1	0	0
		-BWW	842	61	557	1	0	0	877	63	580	1	0	0	889	64	588	1	0	0	891	64	589	1	0	0	1059	76	700	1	0	0
		-BIV	842	61	557	1	0	0	877	63	580	1	0	0	889	64	588	1	0	0	891	64	589	1	0	0	1061	76	702	1	0	0