

All-New D-Series Area Luminaires

Customer Presentation

January 2023

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Area Portfolio Positioning

Price

ESX1 Area
Lowest
Cost of Light



RSX Area
Renovation
Workhorse



NEW D-Series Area
Flagship Specification
Best for New Construction



Radean



Specialty
Pedestrian /
Visual Comfort



Eurotique

Customer / Application Type

Discretionary Stock

Performance Renovation

Best in Class Specification

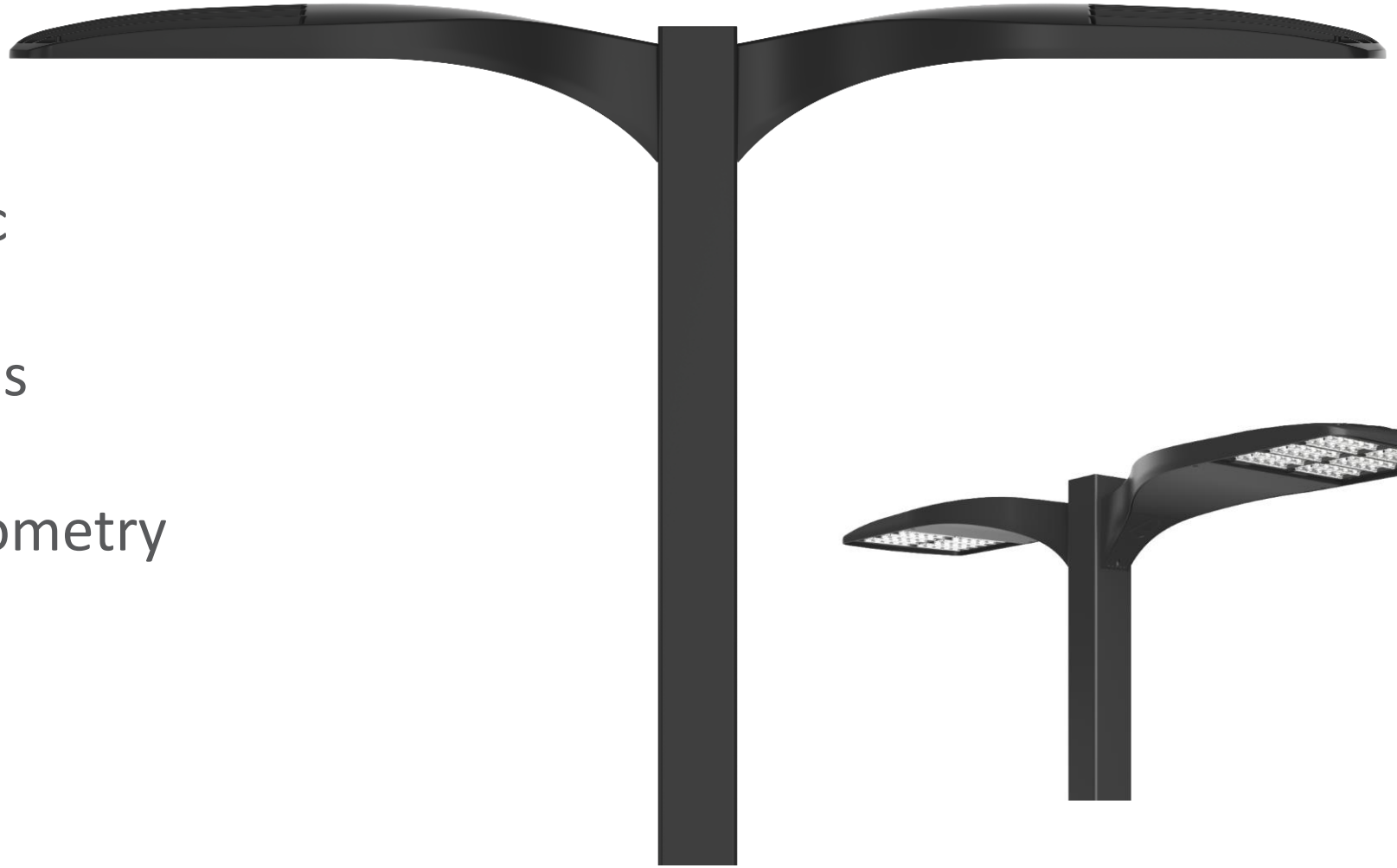
Specialty / Visual Comfort

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D-Series Refresh

Fully Re-Engineered – Inside and Out!

- Flawless Aesthetic
- Enhanced Features
- Immaculate Photometry



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Flawless Aesthetics

- Maintains Family Appearance
- Contoured Monolithic Housing
- Clean Lines & Smooth Curves
- Integrated Motion Sensor



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NEW DSX1 with nLight AIR



Legacy DSX1 with nLight AIR



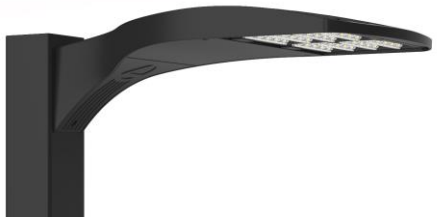
Other Enhanced Features

- More Lumens & Improved Efficacy
- More CCT and CRI choices
- And much more…!



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Lumen Range by Size



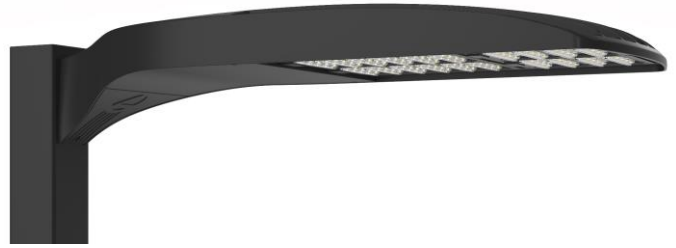
D-Series Size 0

- 4,400 – 21,600 lumens
- 33W to 171W



D-Series Size 1

- 7,200 - 35,000 lumens
- 51W to 277W



D-Series Size 2

- 18,400 - 60,000 lumens
- 135W to 462W

LITHONIA LIGHTING



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DSX0 Performance

Power Package	P1	P2	P3	P4	P5	P6	P7
Lumens (4000K, T3M)	4,791	6,180	8,795	11,130	12,091	17,135	20,319
Watts	33W	45W	69W	93W	90W	137W ⇦	171W
LPW	144	137	128	120	134	125	119
DLC v5.1	Premium						

- MORE LUMENS - New P7 package will provide 10% increase in max lumens vs. legacy DSX0
- LESS ENERGY - Or move down to new P6 package and save 29W vs. legacy DSX0
- DLC v5.1 premium (varies by CCT, CRI and optic type)

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DSX1 Performance

Power Package	P1	P2	P3	P4	P5	P6	P7	P8	P9
Lumens (4000K, T3M)	7,594	9,763	13,763	16,032	17,630	20,539	22,210	28,030	34,006
Watts	51W	68W	102W	124W	138W	165W	184W	216W ⇦	277W
LPW	149	144	135	129	128	124	120	130	123
DLC v5.1	Premium								

- MORE LUMENS - New P9 package will provide 23% increase in max lumens vs. legacy DSX1
- LESS ENGERGY – Choose new P8 package and save 25W vs. legacy DSX1 at same light output
- DLC v5.1 premium (varies by CCT, CRI and optic type)

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DSX2 Performance

Power Package	P1	P2	P3	P4	P5	P6	P7	P8
Lumens (4000K, T3M)	19,480	24,924	29,423	35,040	40,187	44,894	51,461	56,314
Watts	135W	179W	219W	273W	327W	342W	409W	462W
LPW	145	139	134	129	123	131	126	122
DLC v5.1	Premium							

- MORE LUMENS - New P8 package will provide 14% increase in max lumens vs. legacy DSX2
- LESS ENERGY - Or move down to new P7 package and save 39W vs. legacy DSX2
- DLC v5.1 premium (varies by CCT, CRI and optic type)

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Optics

Features and Benefits

(15) New optics

- Standard optics
- Low G optics
- Corner & backlight control optics

New Silicone lens material

- Not affected by temperature
- Durable – will not crack
- Stable – will not yellow

Engineering Excellence

- Specialized designs (undercuts)
- More precise beam shaping
- IP66 rated



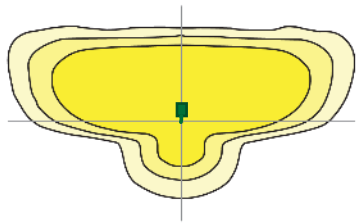


Optical Distributions

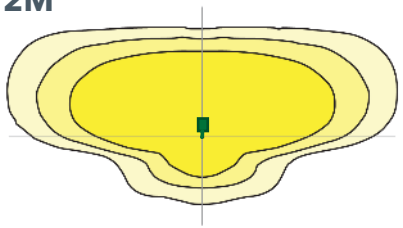
(8) Standard Optics

- Improved forward and lateral distributions
- Wider distributions allow greater pole spacing

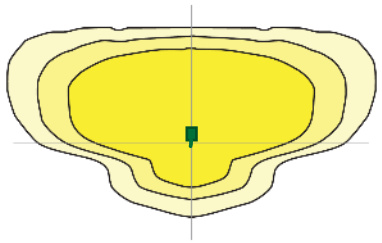
T1S



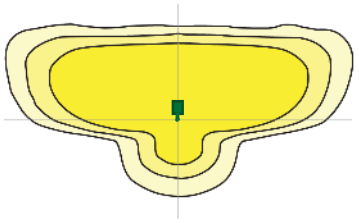
T2M



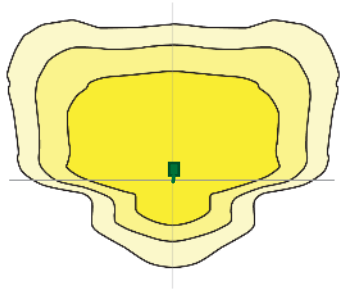
T3M



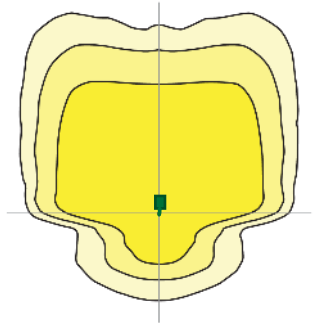
AFR



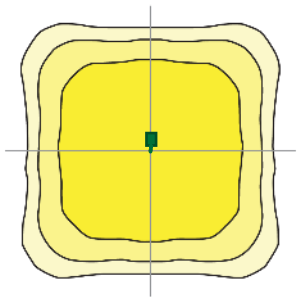
T4M



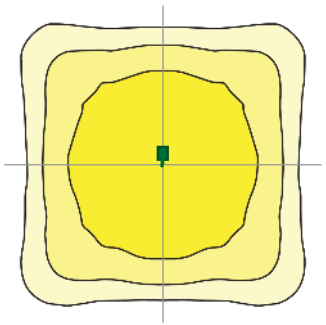
TFTM



T5M



T5W

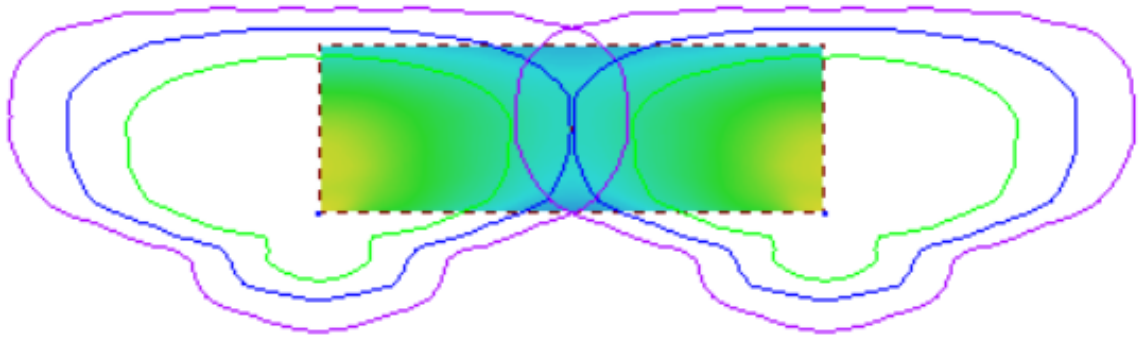


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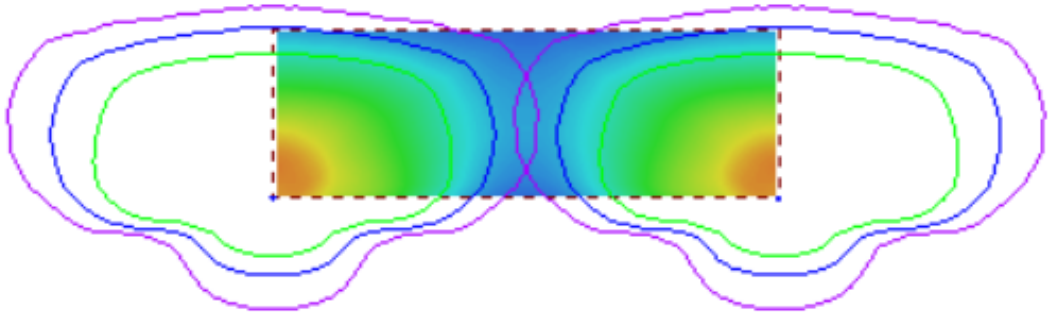
Competitive Comparison

25ft MH
Calc Grid: 180ft X 60ft

New Lithonia D-Series DSX T3M



Competitor



Identical lumen output and Avg. fc

New Lithonia DSX T3M		Competitor T3
25,000	Lumens	25,000
1.7	Avg fc	1.7
4.1	Max fc	5.7
0.5	Min fc	0.3
8.2	Max/Min	19
3.4	Avg/Min	5.7

66% higher minimum fc

Superior uniformity

Wasteful hot spot

Dangerously low footcandle levels

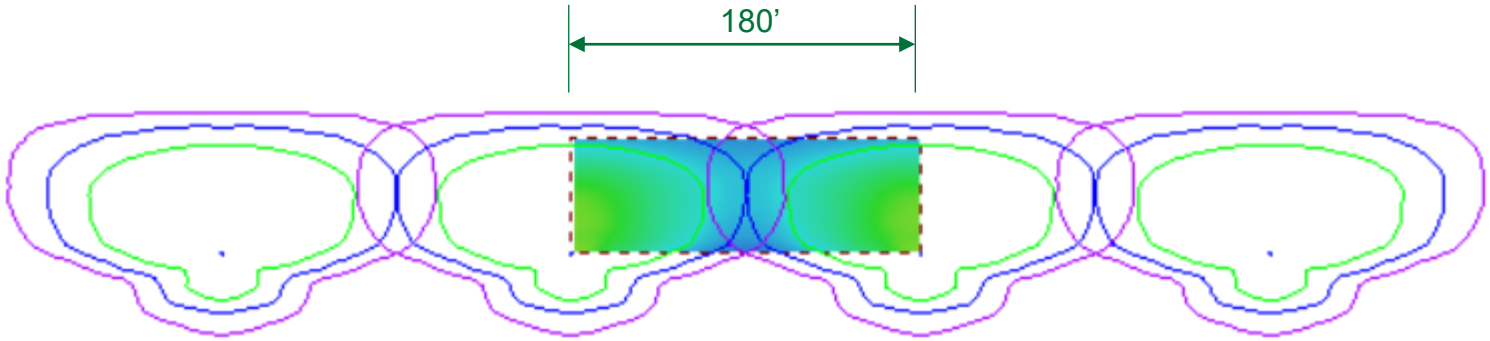
Poor uniformity

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Wider Pole Spacing = Fewer Poles Required

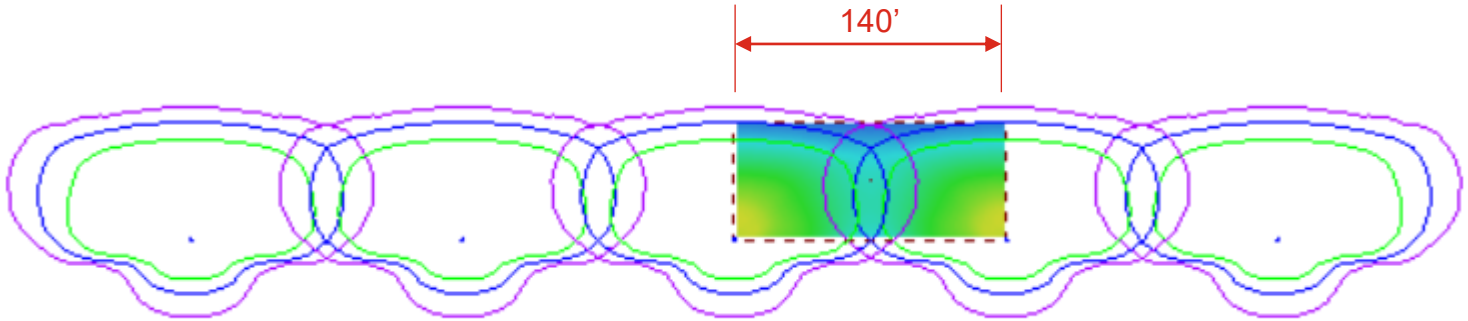
New DSX T3M

4 poles - 180ft spacing on center



Competitor

5 poles – only 140ft spacing on center



To maintain 0.5 fc, the Competitor can only be spaced at 140’ while the new DSX T3M can reach 180’ spacing

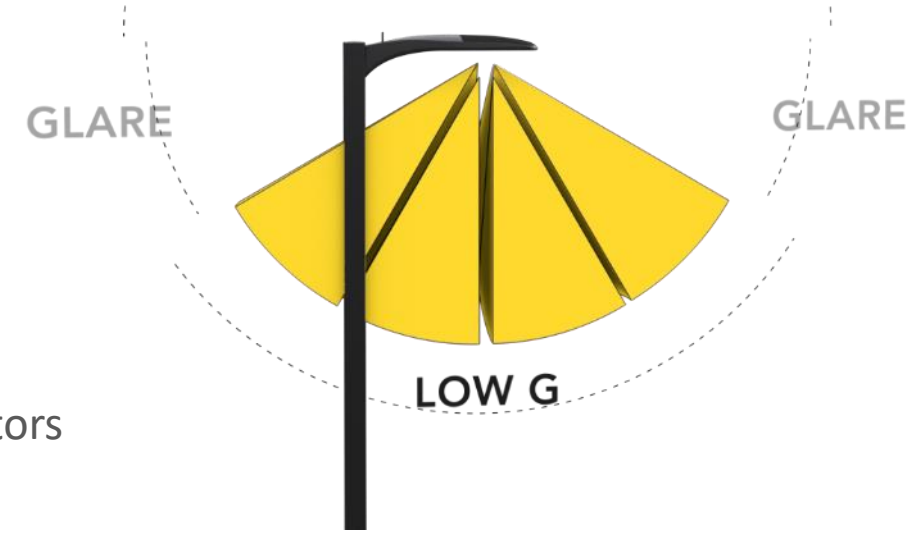
BENEFITS OF USING THE NEW DSX:

- One pole/fixture combo eliminated every 720ft
- Less trenching, wiring and concrete bases = huge cost savings
- Energy reduced by ~20%

Scaled to 25,000 lumens
25ft MH

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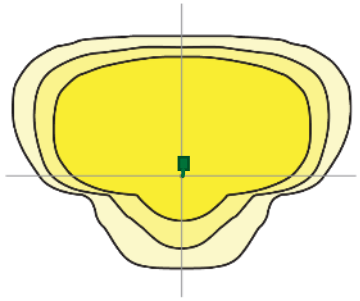
Optical Distributions



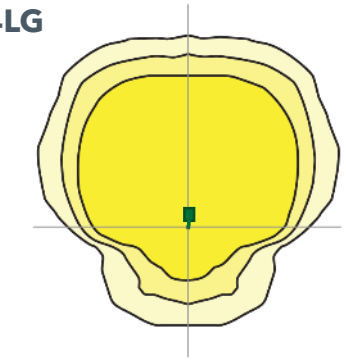
(3) Low-G Optics

- Reduces high angle light minimizing BUG – “G rating”
- Increased light levels within distribution
- 1 – 2 G ratings below the similar distribution type from competitors

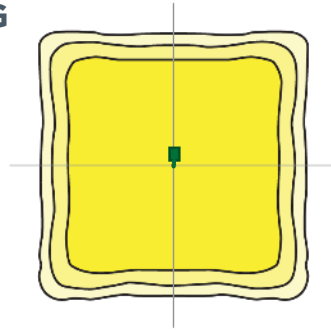
T3LG



T4LG



T5LG



Optical Distributions

(2) Backlight Control Optics

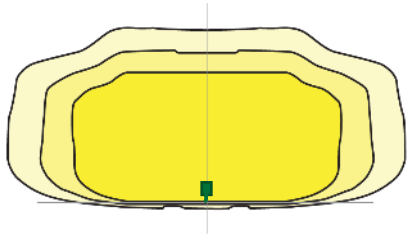
- New BLC optics provide only 0.5% of total light behind pole
- Maintain B0 up to 43,000 lumens
- Shortest distance to zero foot-candles behind pole
- Additional forward and lateral throw
- Absolute BEST backlight control in the business!



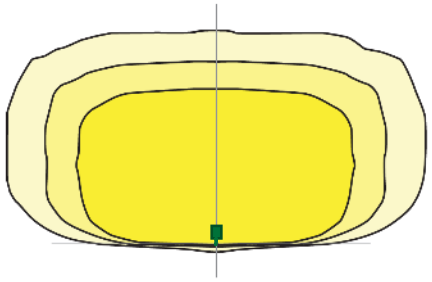
(2) Corner Control Optics

- New corner optics help supplement hard to light areas with improved cutoff control and further corner reach towards center

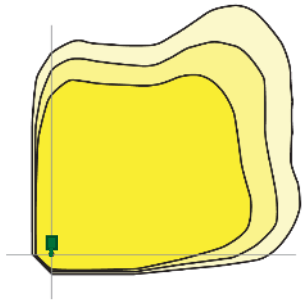
BLC3



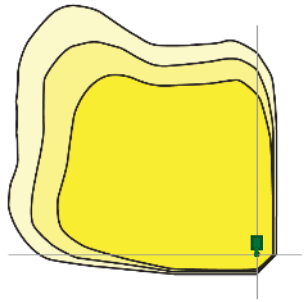
BLC4



LCCO



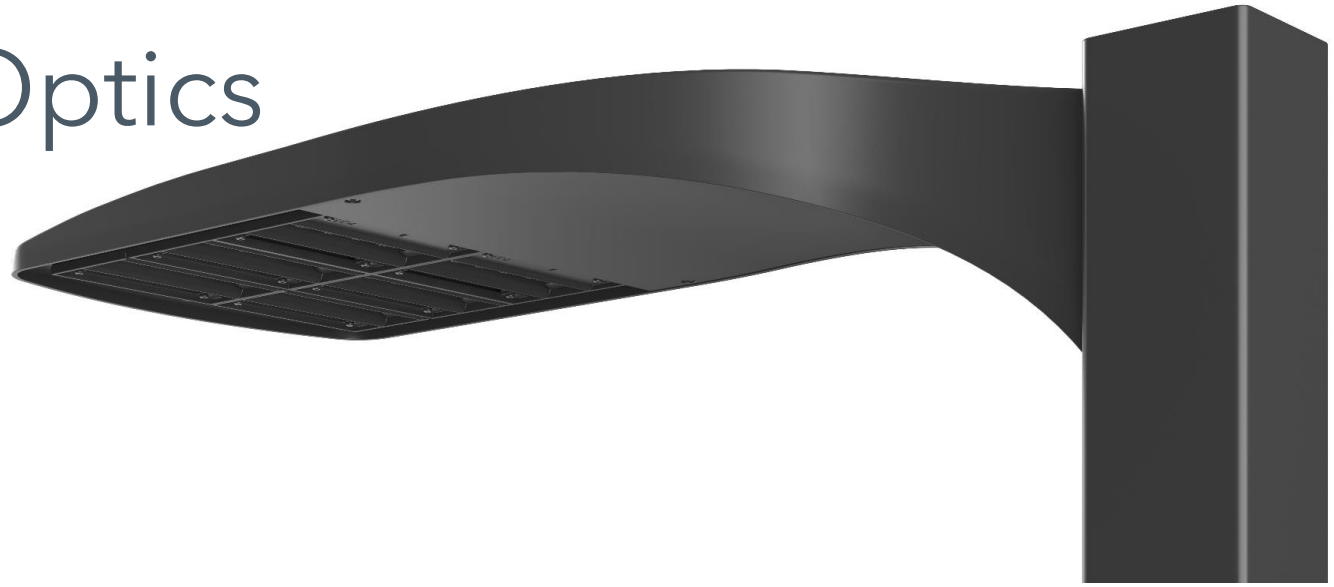
RCCO



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New BLC3 / BLC4 Optics

Close Up





As viewed from front

As viewed from rear

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New BLC3 / BLC4 Optics

Close Up



As viewed from front



As viewed from rear

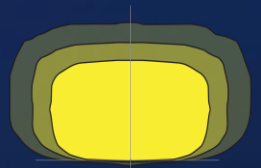
“Black-out” technology

- **Reduces aperture brightness**
- **Redirects light forward and lateral**
- **Complete back light control**

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Complete zonal backlight control

With BLC



BLC4

Standard T3M



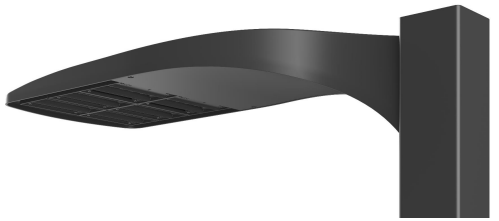
T3M

Shortest distance to ZERO foot-candles behind pole

Precise cutoff under pole and at boundary line

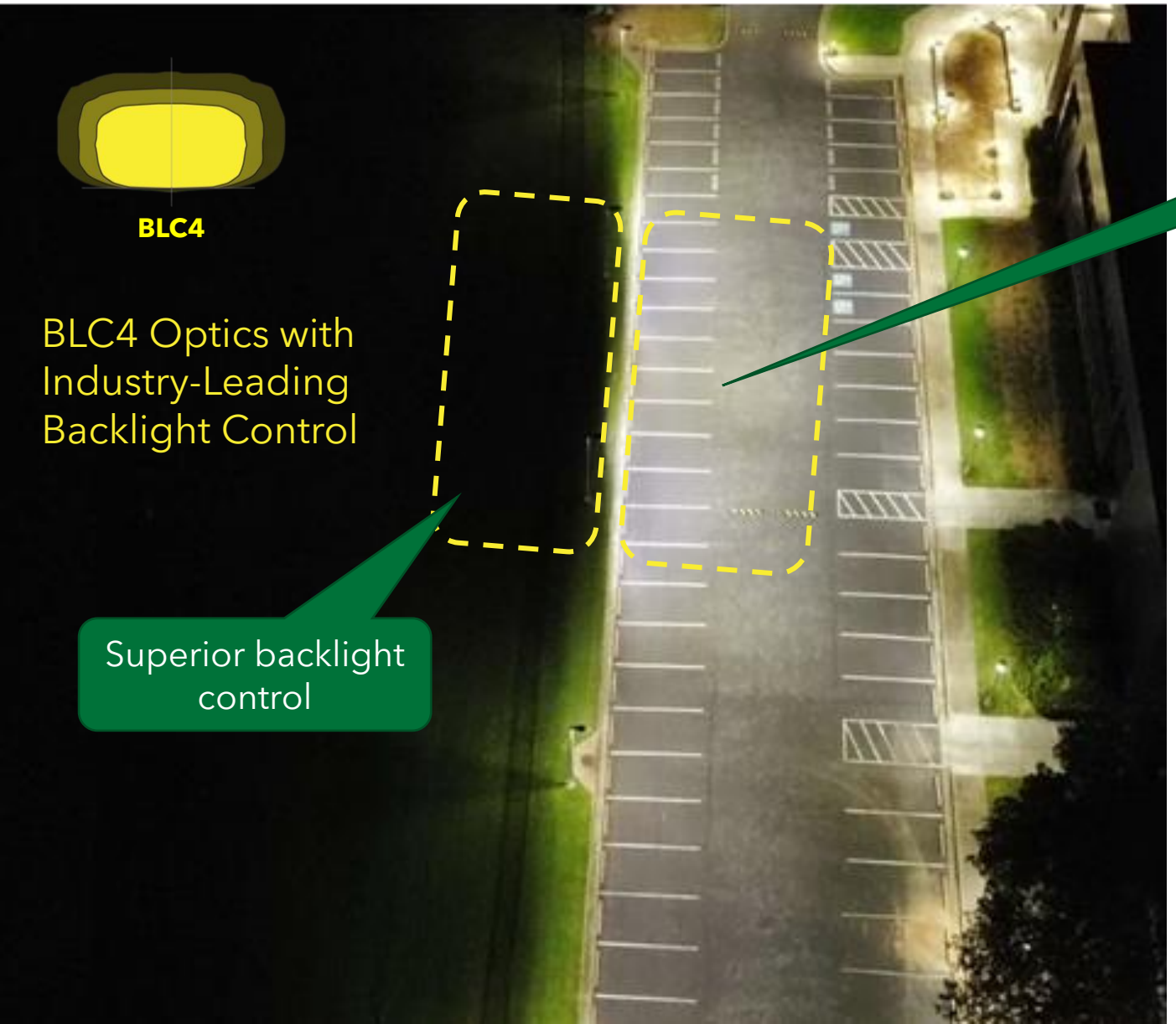
BLC in Application





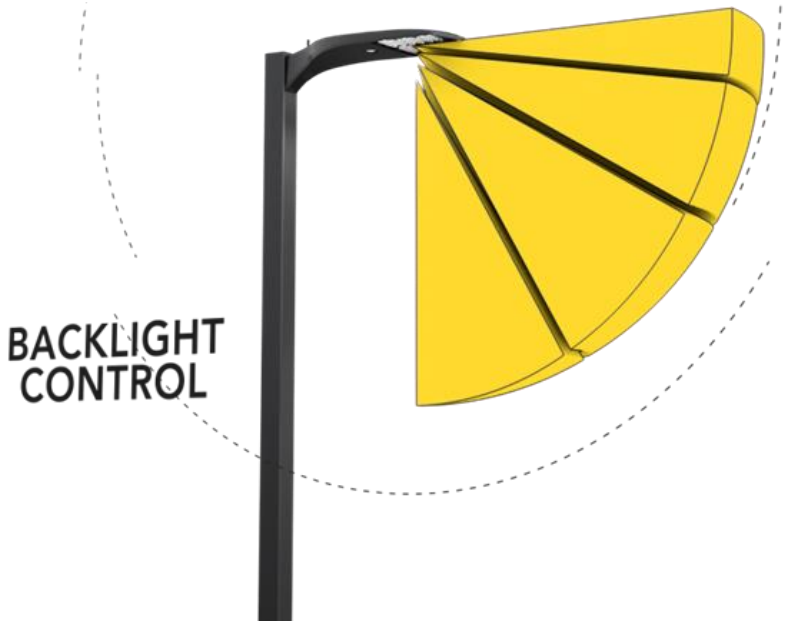
State-of-the-Art Backlight Control…In Application!

Drone Shot from Above



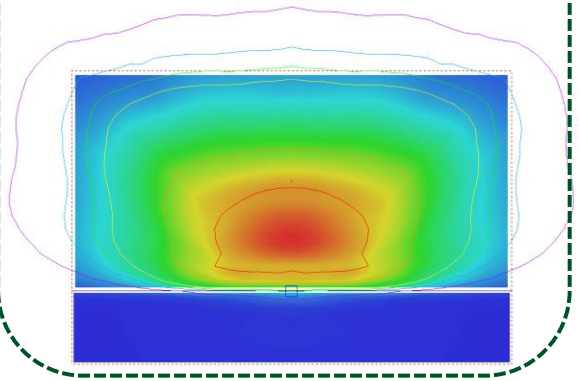
Qty (2) DSX with new BLC4

Optimized forward and lateral throw

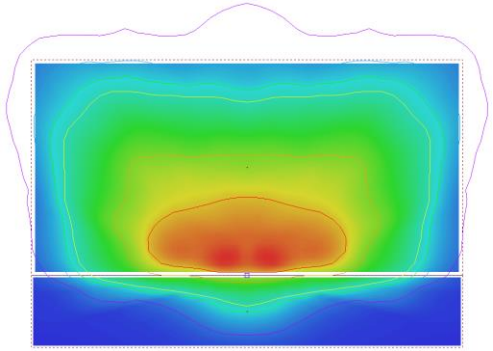


Scaled to 20,000 lumens
20ft MH

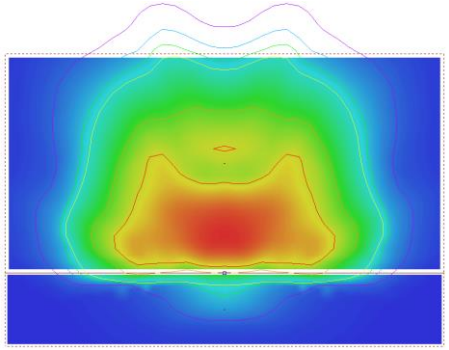
New DSX with BLC4



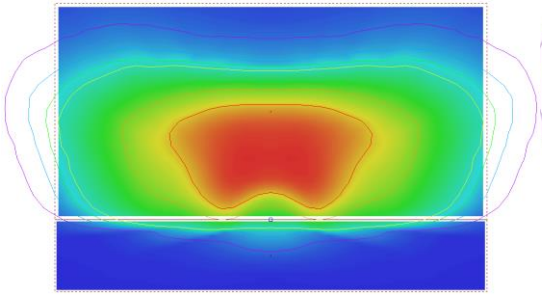
Competitor A



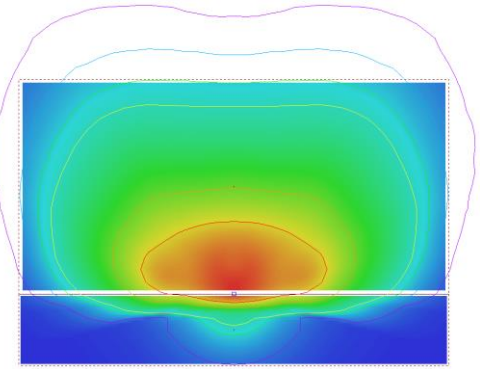
Competitor B



Competitor C



Competitor D



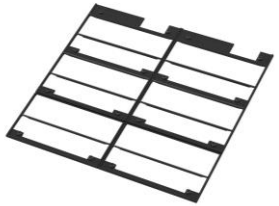
	Backlight					Forward Throw					
	Distance back to zero.	Max in Backlight	Avg. in Backlight	Backlight Lumens	Lumens %	Forward to 0.25	Lateral to 0.25	Quad center (120' x 160')	Max	Forward Lumens	Lumens %
New DSX with BLC4	5.5	0.5	0	104	0.5	77.5	77	0.6	8.4	19896	99.5
Competitor A	13.5	2.6	0.2	509	2.5	54	74	0.3	8.8	19450	97.4
Competitor B	23.5	2.6	0.2	725	3.6	73.5	51.5	0	11	19236	96.3
Competitor C	23.5	3.6	0.5	1218	6.1	75.5	45.5	0.3	8.8	18691	93.9
Competitor D	29.5	8.6	0.7	1682	8.4	80.5	38.5	0.3	9.6	18313	91.6

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More Shielding Solutions

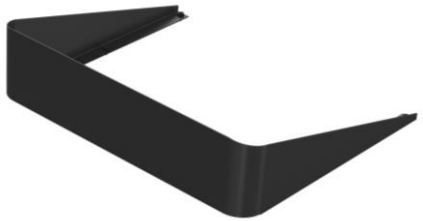
Field Accessories to Address Glare and Other Light Trespass Challenges

- For optimal results, choose the best optic specific to application
- House side shield (HS) – factory or field installed





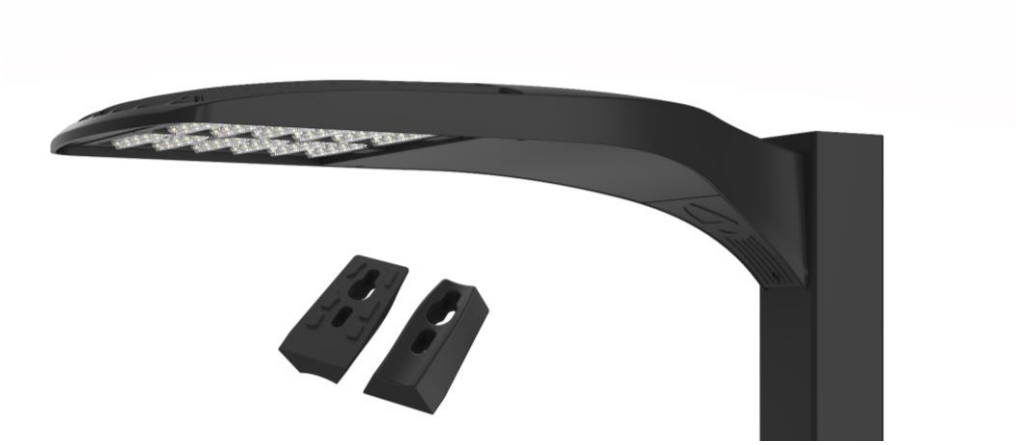
- External glare shield (EGS) – field installed and reversable to face front or back





More Mountings

- Square and Round Pole Mounting



- Wall Bracket



- Mast Arm Adapter



Mountings – Standard Arm

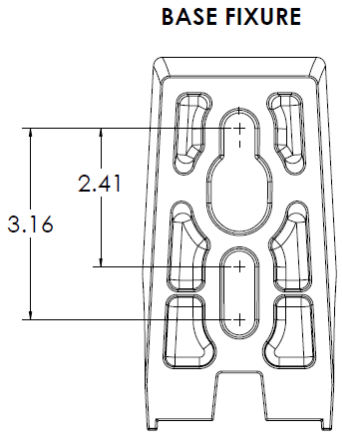
Mounting Details for Standard Pole Mou[illegible]

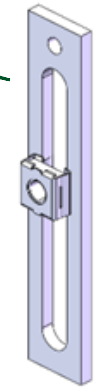
SPA & RPA

Fits pole drillings 2.41” to 3.16” on center

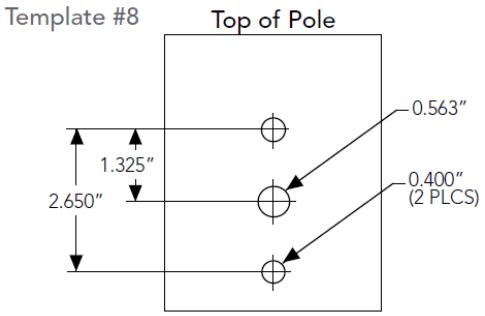
Ships standard with sliding nut bracket

New DSX use #8 drilling (standard template)



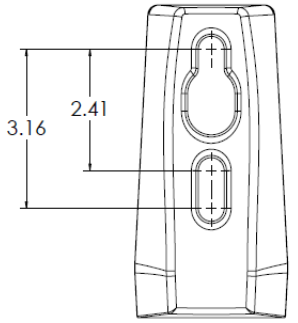


DSX Standard #8 Pole Drilling

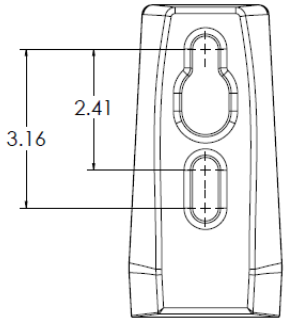




SPA - Standard integral arm
Fits min. 3.5” square poles



RPA (adapter)
Fits min. 3” round poles



SPA8N (adapter)
For narrow square poles (min. 3”)

Ordering Information

New Features:

- **New DSX requires CRI in the description**
- **Expanded CCT's and CRI's**

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI

Distribution		Voltage	Mounting
AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V)[4]	**Shipped included**
T1S Type I short	T5LG Type V low glare	HVOLT (347V-480V)[5,6]	SPA Square pole mounting (#8 drilling)
T2M Type II medium	T5W Type V wide	XVOLT (277V - 480V)[7,8]	RPA Round pole mounting (#8 drilling)
T3M Type III medium	BLC3 Type III backlight control[3]		SPA5 Square pole mounting #5 drilling[9]
T3LG Type III low glare[3]	BLC4 Type IV backlight control[3]		RPA5 Round pole mounting #5 drilling[9]
T4M Type IV medium	LCCO Left corner cutoff[3]		SPA8N Square narrow pole mounting #8 drilling
T4LG Type IV low glare[3]	RCCO Right corner cutoff[3]		WBA Wall bracket[10]
TFTM Forward throw medium			

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc.[11,12,20,21]
PIR	High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[13,20,21]
PER	NEMA twist-lock receptacle only (controls ordered separate)[14]
PER5	Five-pin receptacle only (controls ordered separate)[14,21]
PER7	Seven-pin receptacle only (controls ordered separate)[14,21]
FAO	Field adjustable output[15,21]
BL30	Bi-level switched dimming, 30%[16,21]
BL50	Bi-level switched dimming, 50%[16,21]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]
DS	Dual switching[18,19,21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard)[22]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[23]

Shipped separately

EGS	External Glare Shield (reversible, required, matches housing finish
BS	Bird Spikes (field install required

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum

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Ordering Information

New Features:

- **Option PIR sensor has improved detection pattern and mounting height range**
- **Bi-level dimming device is UVOLT and allows secondary control circuit to dim light engines**
- **New coastal construction option for added corrosion protection**
- **External glare shield is now reversible in the field (can be forward or backward facing)**

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution		Voltage	Mounting
DSX1 LED	**Forward optics** P1 P6 P2 P7 P3 P8 P4 P9 P5 **Rotated optics** P10[1] P12[1] P11[1] P13[1]	(this section 70CRI only) 30K 3000K 40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare[3] T4M Type IV medium T4LG Type IV low glare[3] TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[3] BLC4 Type IV backlight control[3] LCCO Left corner cutoff[3] RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4] HVOLT (347V-480V)[5,6] XVOLT (277V - 480V)[7,8]	**Shipped included** SPA Square pole mounting (#8 drilling) RPA Round pole mounting (#8 drilling) SPA5 Square pole mounting #5 drilling[9] RPA5 Round pole mounting #5 drilling[9] SPA8N Square narrow pole mounting #8 drilling WBA Wall bracket[10]

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc.[11,12,20,21]
PIR	High/low, motion/ambient sensor, 8–40' mounting height, ambient sensor enabled at 2fc[13,20,21]
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DS	Dual switching[18,19,21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard)[22]
L90	Left rotated optics[1]
R90	Right rotated optics[1]
CCE	Coastal Construction[23]

Shipped separately

EGS	External Glare Shield (reversible, required, matches housing finish
BS	Bird Spikes (field install required

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum

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nLight AIR™ Controls

- Site-wide controls solution
- Motion sensing with dusk-to-dawn photocontrol
- Ready at install with out-of-box default settings

or

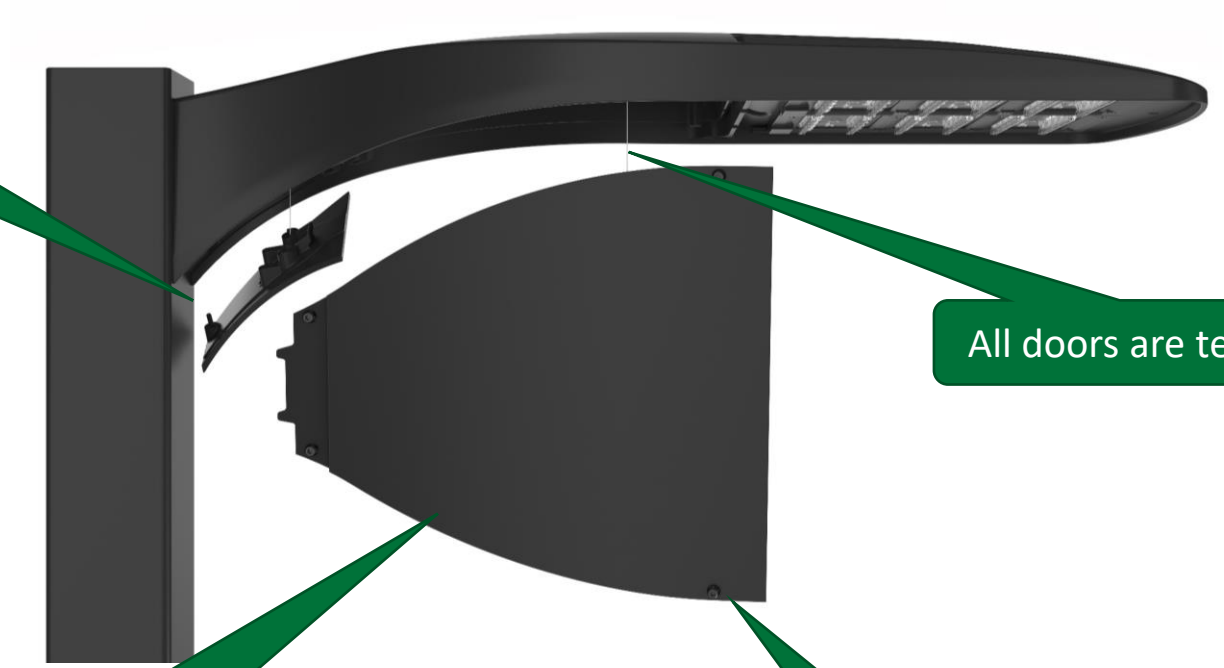
- Commission with smartphone for grouping the site
- nLight Eclypse is not needed unless scheduled dimming required



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Access and Maintenance

Access to mounting compartment is via splice cover door using a single screw



All doors are tethered

It is not necessary to open the driver compartment when installing the new D-Series

All screws are captive

AcuityBrands.

The Legacy Version Will Continue to be Available!

Website – Different Product Pages for Each Series

NEW DSX Refresh



New DSX Refresh

- **Available now!**

Legacy DSX



Legacy DSX (G1)

- **Available for coming six plus months**
- **Availability for limited time during ramp down**

AcuityBrands.

Product Information Available on D-Series Product Pages

Imagery	Standard Product Renderings
	360° Product Renderings
	Application Images
Collateral	Brochure
	Product Web Pages
	Product Family Page
Presentations	Customer Presentation
Videos	Feature & Benefit
	Installation
Technical Data	Specification Sheets
	Installation Instructions



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Video Links

Initial Reveal, Feature/Benefit and Installation Videos



Reveal Video



Feature/Benefit Video



Installation Video

AcuityBrands.

Thank You

