



V-LOCITY Area Light Training Presentation

August 2024

V-LOCITY Area Light Overview



Medium
(VALM)



Small
(VALS)



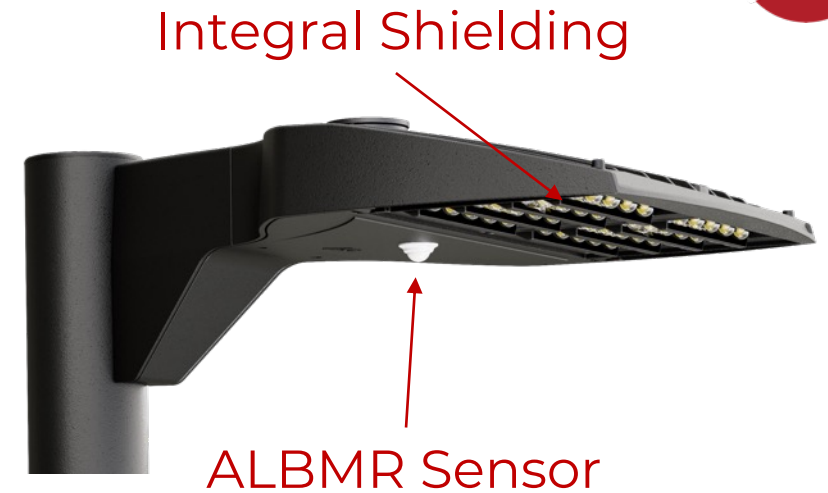
- Curved Architectural Housing with Sleek 2" Profile
- 4 Interchangeable Mounting Arms
- **15+ Optical Distributions**
- 6,000 - 54,000 lumens @ up to 180 LPW
- 5 Standard Color Temperatures @ 80 CRI
- Field Replaceable Light Engine/Optic
- Programmable Drivers w/Custom Lumen Outputs
- Standalone & Wireless Controls Available
- 50°C High Ambient Temperature Rating Standard



IP66

Options

- Universal (120-277V) & High (347-480V) Voltage
- 2700K, 3000K, 3500K, 4000K and 5000K CCTs
- 80 CRI (Color Rendering Index) Standard
- LSI Standard Finishes + Custom Colors
- Button Photocell, 7-Pin Twist Lock Receptacle
- IMSBTL & AirLink Blue Sensor Options
- Integral & External Shielding

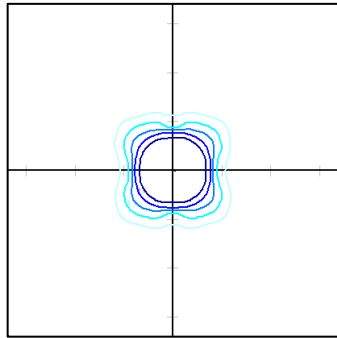


Photometric Distributions



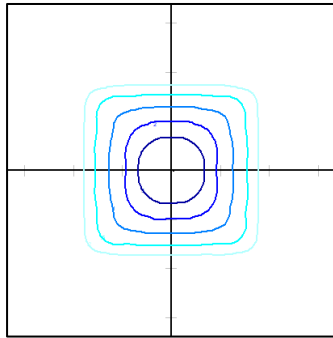
15 Photometric Distributions!

Wide Flood



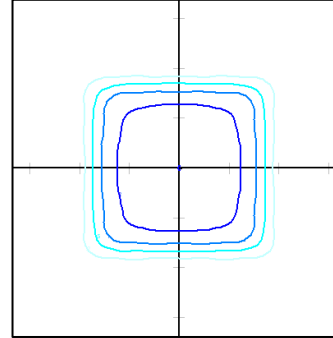
2

5 Square Narrow



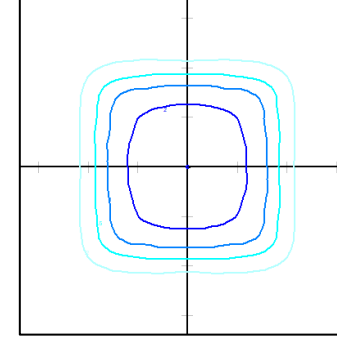
3 Wide

5 Square Medium



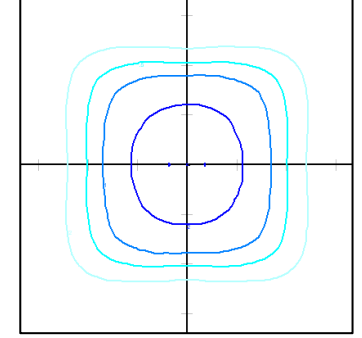
4 Wide

5 Square

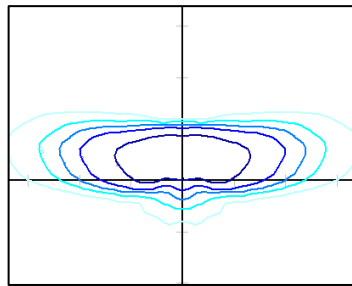


4 Forward

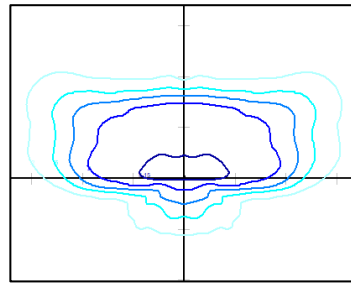
5 Square Wide



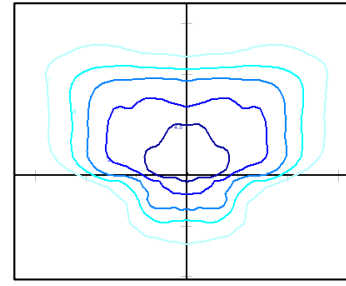
Right Corner



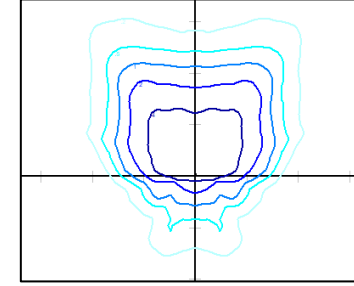
Automotive



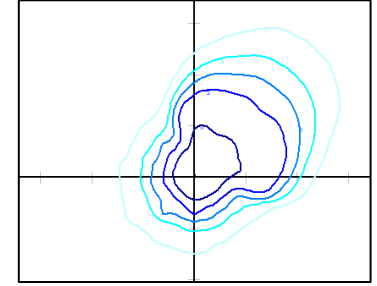
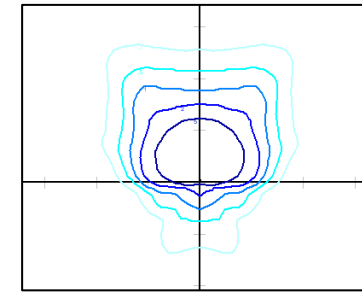
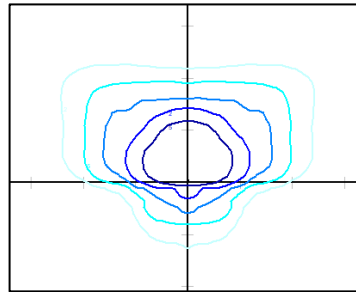
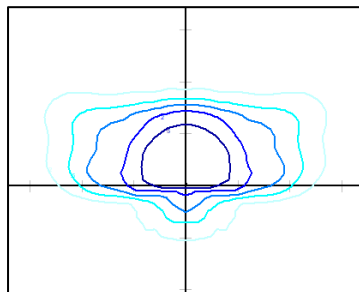
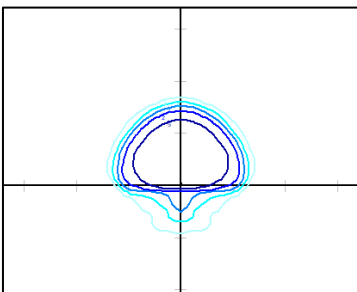
3 Medium



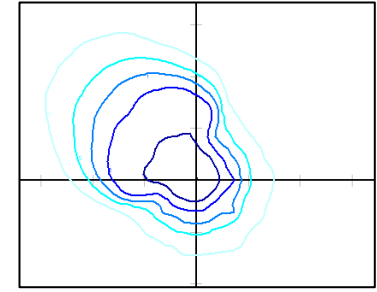
Forward Throw Medium



4 Medium



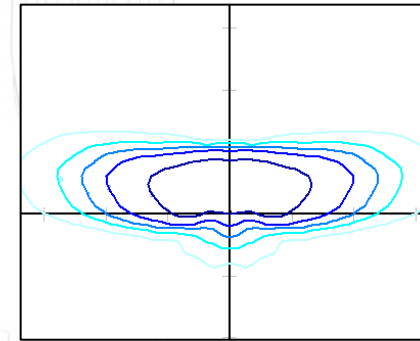
Left Corner



Photometric Distributions – Parking Lots & Roadway

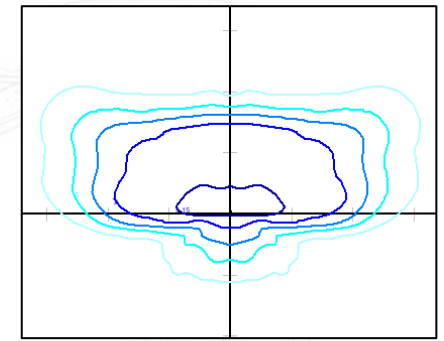


Type 2



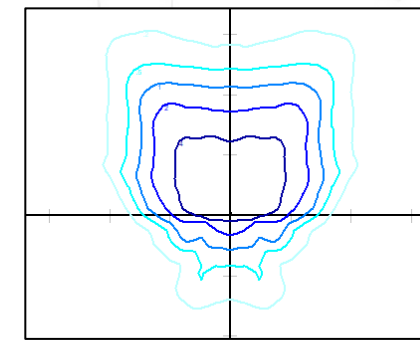
Roadway/Drive Lane & Perimeter/Walkway

Type 3



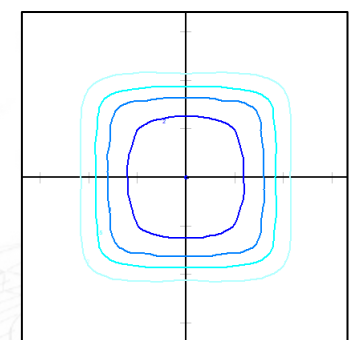
Roadway/Drive Lane & Parking Perimeter

Type 4



Parking Perimeter & Building Mount

Type 5

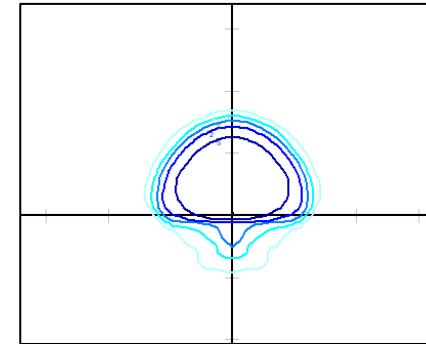


Parking Interior

Photometric Distributions - Automotive

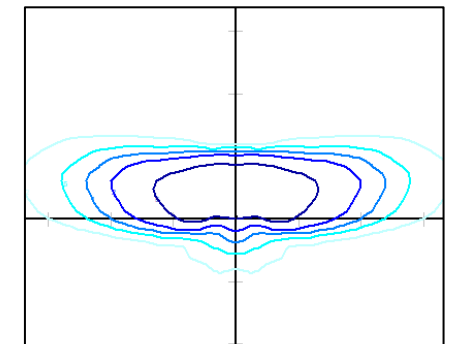


Type AM



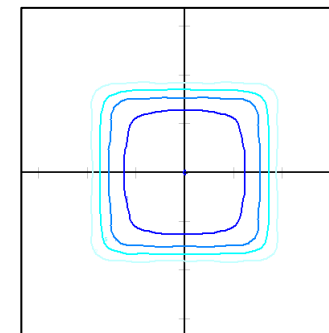
Automotive Merchandise

Type 2



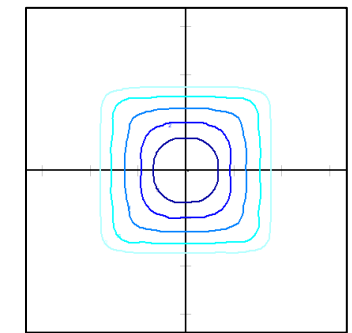
Automotive Front Row

Type 5QM



Automotive Interior

Type 5QN

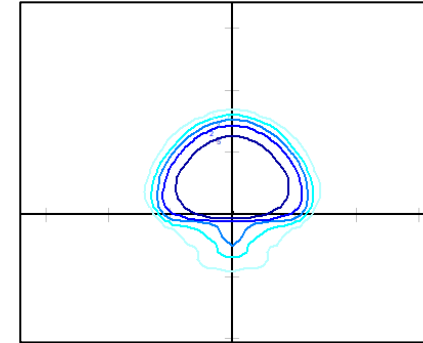


Automotive Interior

Photometric Distributions – Sport Complex

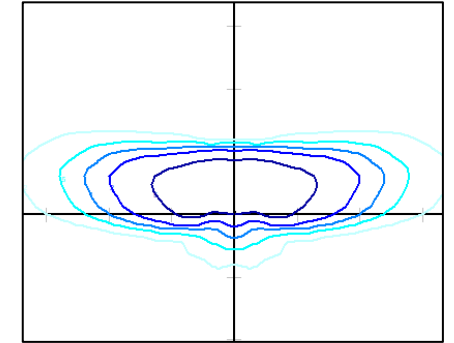


Type CT



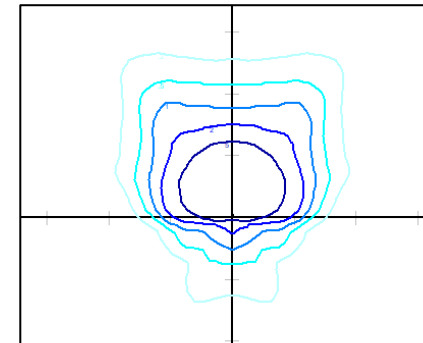
Court Perimeter
(New Construction)

Type 2



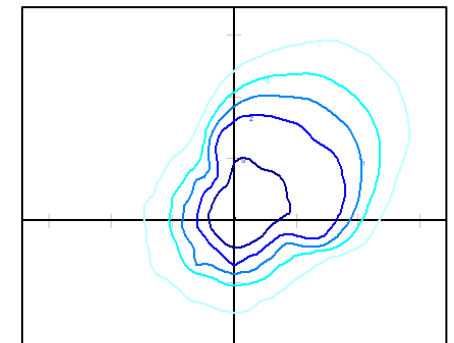
Pickleball (2 Pole)

Type 4M



Court Perimeter
(Retrofit)

LC/RC

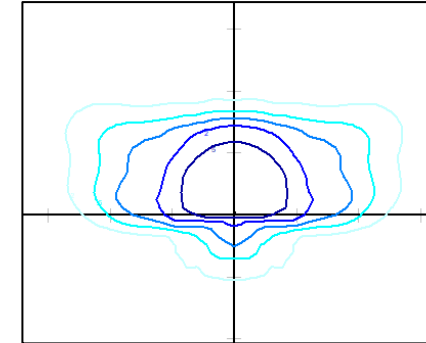


Corner (Retrofit)

Photometric Distributions – C-Store / QSR

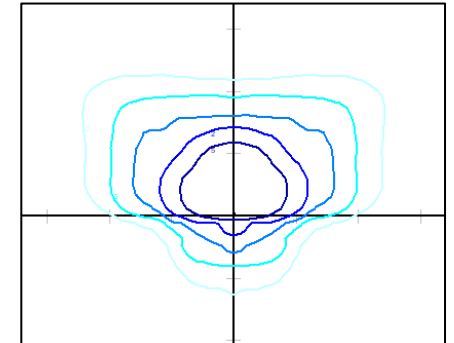


Type 3M



Perimeter Parking
& Drive Lane

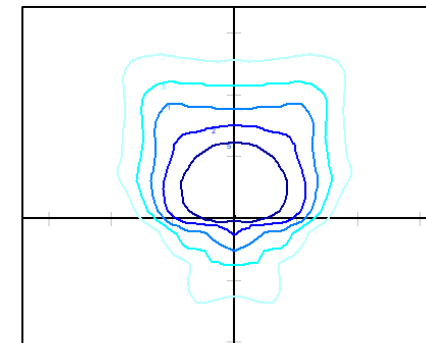
Type FTM



Perimeter Parking

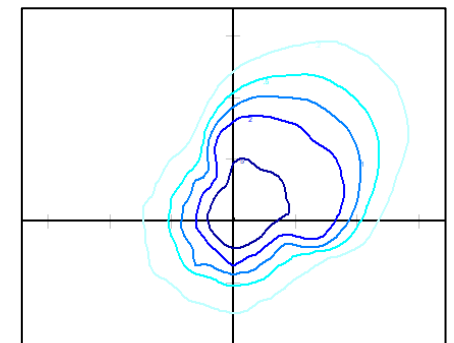


Type 4M



Perimeter Parking

LC/RC

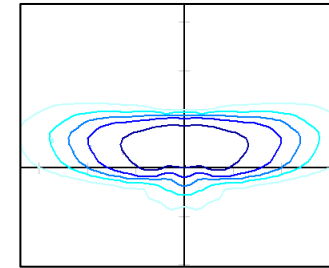


Parking Lot Entrance/Exit

Photometric Distributions – Grocery / Retail Lots

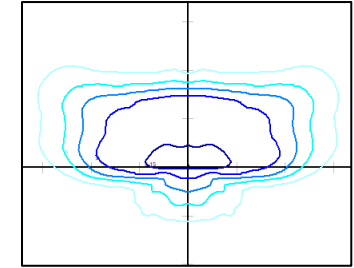


Type 2



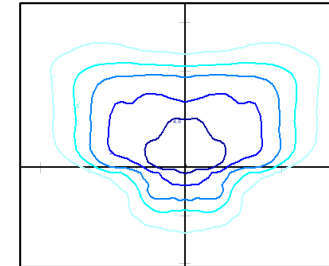
Drive Lane

Type 3W



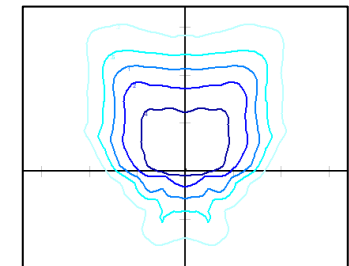
Drive Lane/Parking

Type 4W



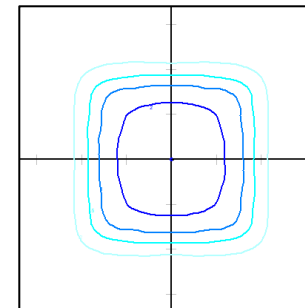
Parking Perimeter

Type 4F



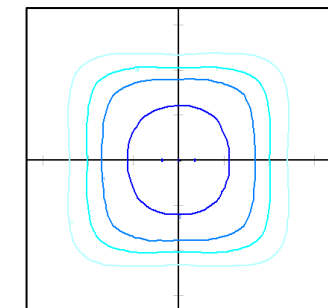
Parking Perimeter

Type 5Q



Parking Interior

Type 5QW

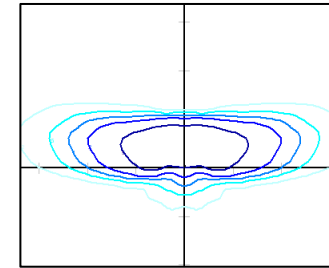


Parking Interior

Photometric Distributions – Distribution/Warehouse

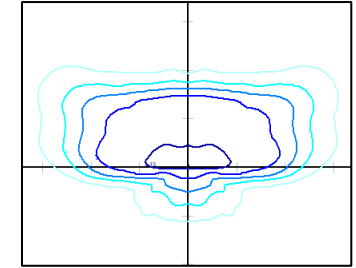


Type 2



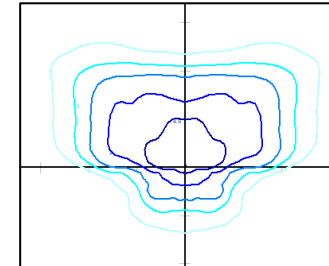
Drive Lane

Type 3W



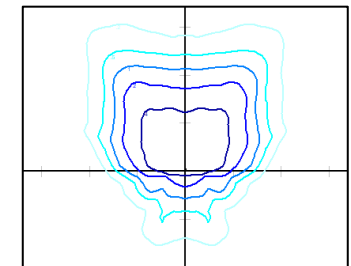
Drive Lane/Parking

Type 4W



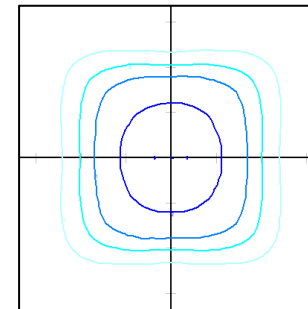
Perimeter Parking

Type 4F



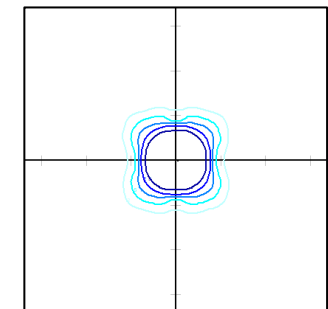
Building Perimeter

Type 5QW



Interior Parking

Type WF



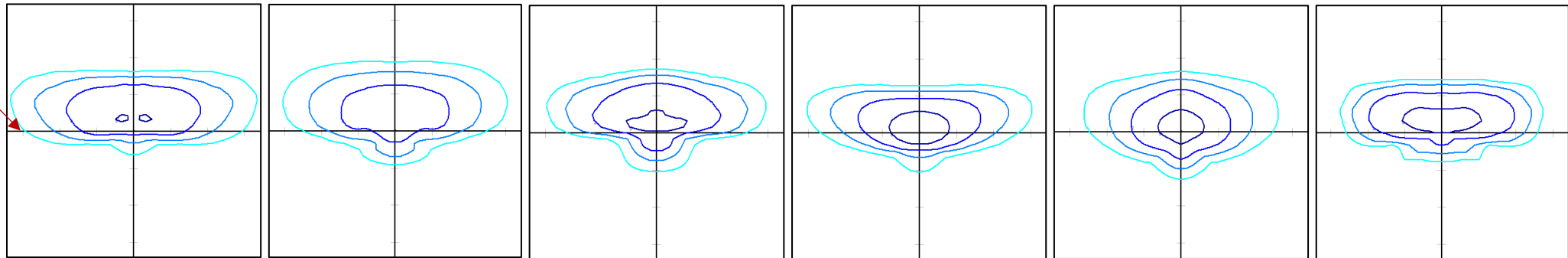
Loading Dock/Storage Lot

Photometric Performance – Type 2



Industry Leading
Lateral Spacing

Type 2 Distribution
~24,000 Lumens
4000K CCT
25' Mounting Height



Total Lumens	24,893	21,955	23,255	23,764	23,626	24,030
% Backlight	14%	19%	18%	30%	33%	19%
Street Lumens	21,288	17,739	19,048	16,701	15,765	19,569
Watts	153	184	184	169	131	217
Efficacy	163	119	126	141	180	111
Backlight Rating	B3	B3	B3	B3	B3	B3

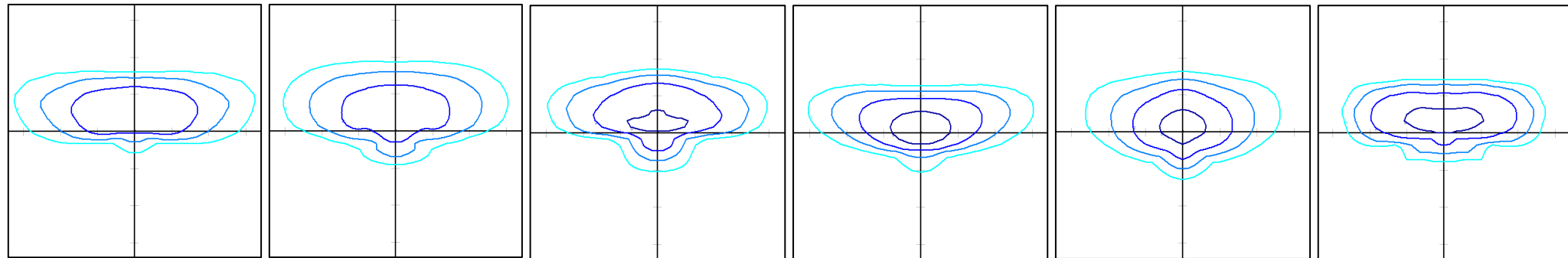
Most Light on Target

5 FC 2 FC 1 FC 0.5 FC

Photometric Performance – Type 2



Type 2 Distribution
~24,000 Lumens
4000K CCT
25' Mounting Height



Total Lumens	21,956	21,955	23,255	23,764	23,626	24,030
% Backlight	14%	19%	18%	30%	33%	19%
Street Lumens	18,776	17,739	19,048	16,701	15,765	19,569
Watts	133	184	184	169	131	217
Efficacy	164	119	126	141	180	111
Backlight Rating	B2	B3	B3	B3	B3	B3

Superior Optical Control Results in
Additional 12% Energy Savings

5FC 2FC 1FC 0.5FC

Photometric Performance – Type 3



Industry Leading
Forward Throw &
Lateral Spacing

Type 3 Distribution
~24,000 Lumens
4000K CCT
25' Mounting Height



AcuityBrands.



COOPER
Lighting Solutions



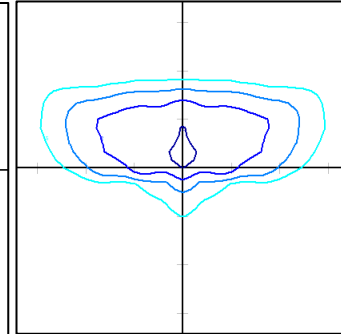
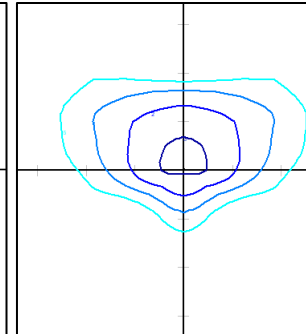
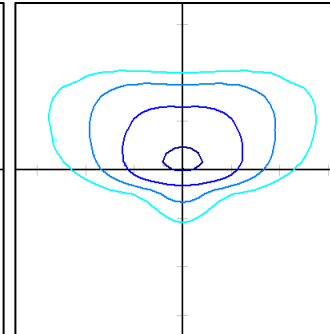
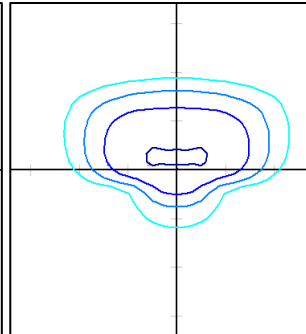
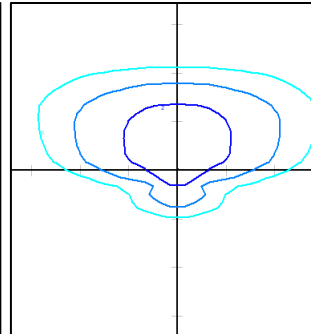
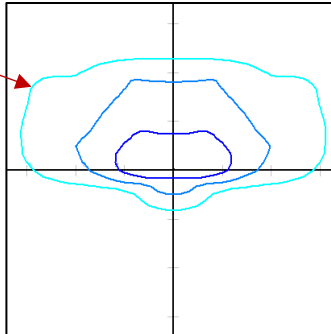
GARDCO
by @signify



GARDCO
by @signify



Current @



Total Lumens	23,124	22,208	22,901	22,981	23,438	23,788
% Backlight	18%	19%	24%	21%	26%	15%
Street Lumens	18,858	18,039	17,338	18,251	17,328	20,234
Watts	153	184	184	169	131	217
Efficacy	151	120	124	136	179	109
Backlight Rating	B3	B3	B3	B3	B3	B3

■ 5FC ■ 2FC ■ 1FC ■ 0.5FC

42% More Energy Consumption

Photometric Performance – Type 4



Industry Leading
Forward Throw



AcuityBrands.



COOPER
Lighting Solutions



GARDCO
by @ignify

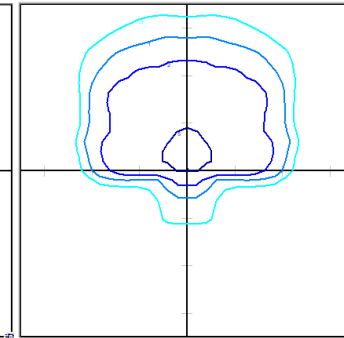
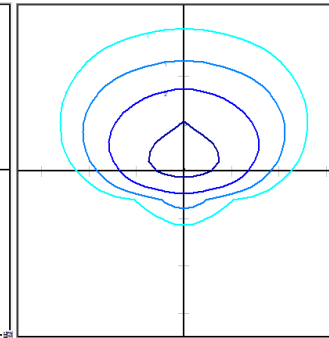
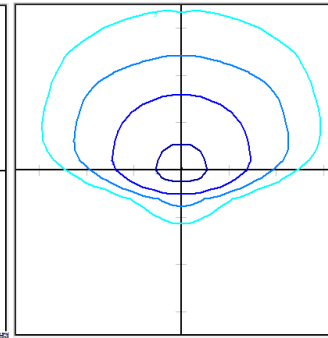
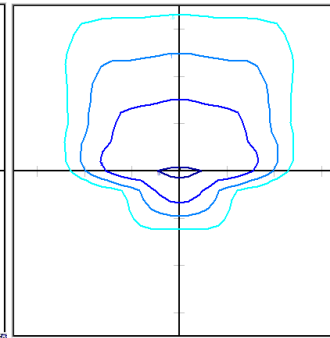
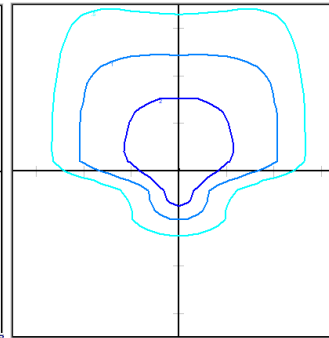
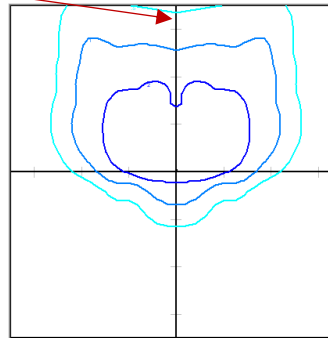


GARDCO
by @ignify



Current @

Type 4 Distribution
~24,000 Lumens
4000K CCT
25' Mounting Height



Total Lumens	23,764	22,695	23,043	23,840	23,753	24,048
% Backlight	14%	19%	21%	20%	18%	11%
Street Lumens	20,331	18,358	18,139	19,028	19,382	21,395
Watts	153	184	184	169	131	210
Efficacy	155	123	125	141	181	111
Backlight Rating	B3	B3	B3	B3	B3	B2

5 FC 2 FC 1 FC 0.5 FC

Photometric Performance – Type 5 Wide



Industry Leading
Fixture Spacing



AcuityBrands.



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Lighting Solutions



GARDCO
by @signify

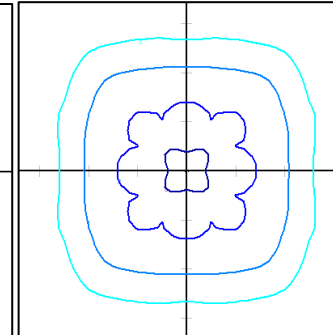
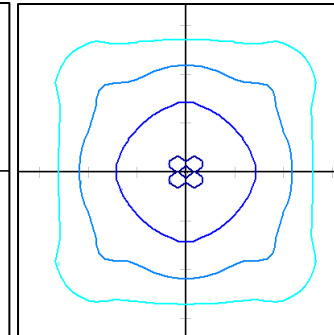
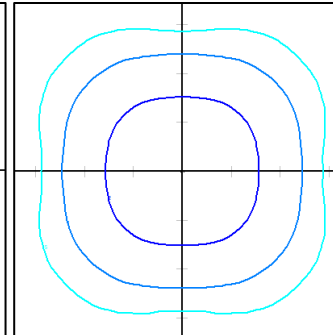
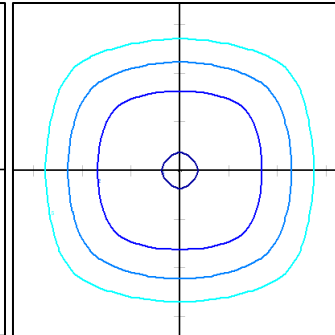
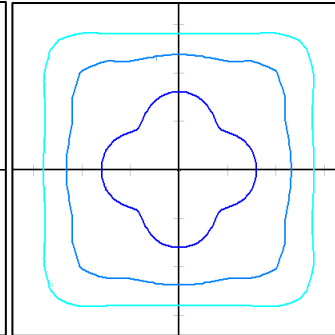
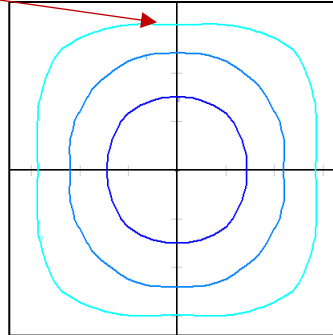


GARDCO
by @signify



Current @

Type 5 Distribution
~24,000 Lumens
4000K CCT
25' Mounting Height

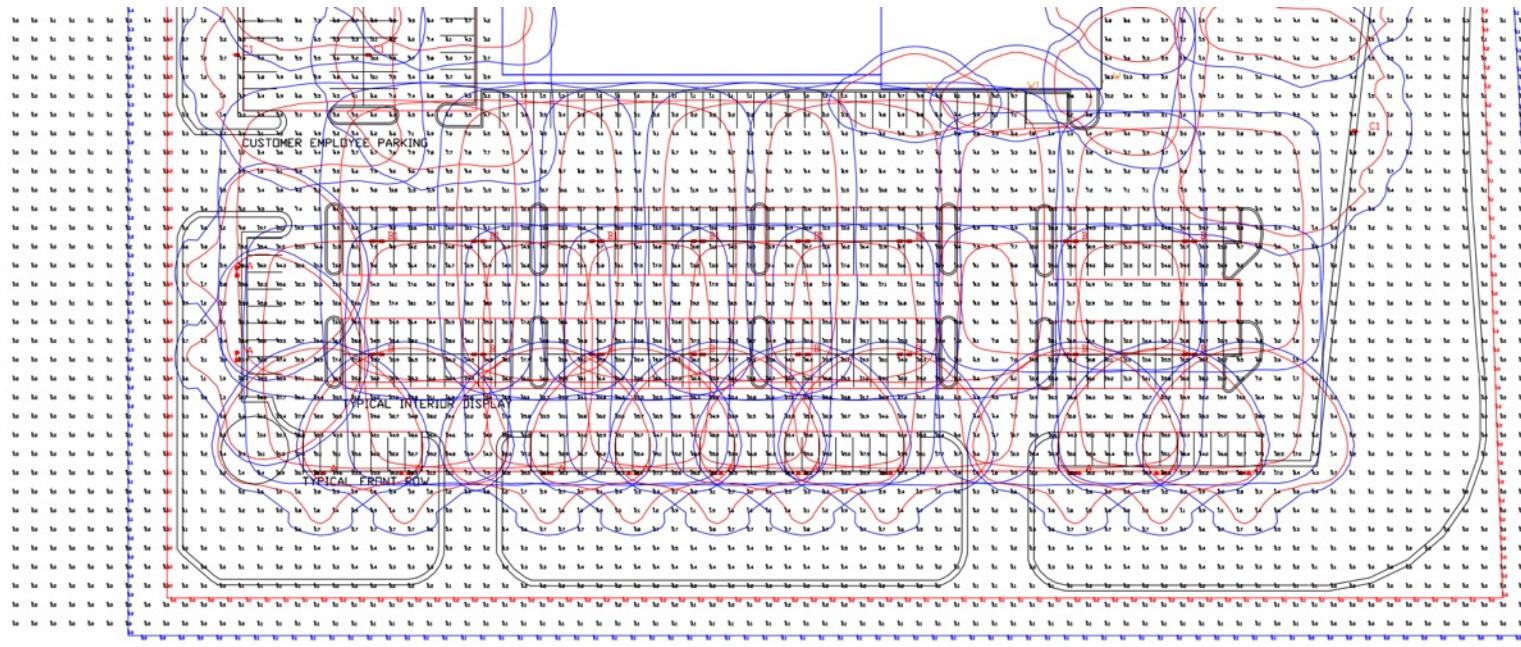


Total Lumens	24,805	23,563	24,170	24,617	23,407	22,837
Watts	153	184	184	169	131	217
Efficacy	162	128	131	146	179	105
Max OC Spacing (0.5 FC)	~210'	~190'	~190'	~200'	~200'	~200'
Max OC Spacing (1.0 FC)	~180'	~170'	~160'	~170'	~160'	~160'

*D180° Configurations

5 FC 2 FC 1 FC 0.5 FC

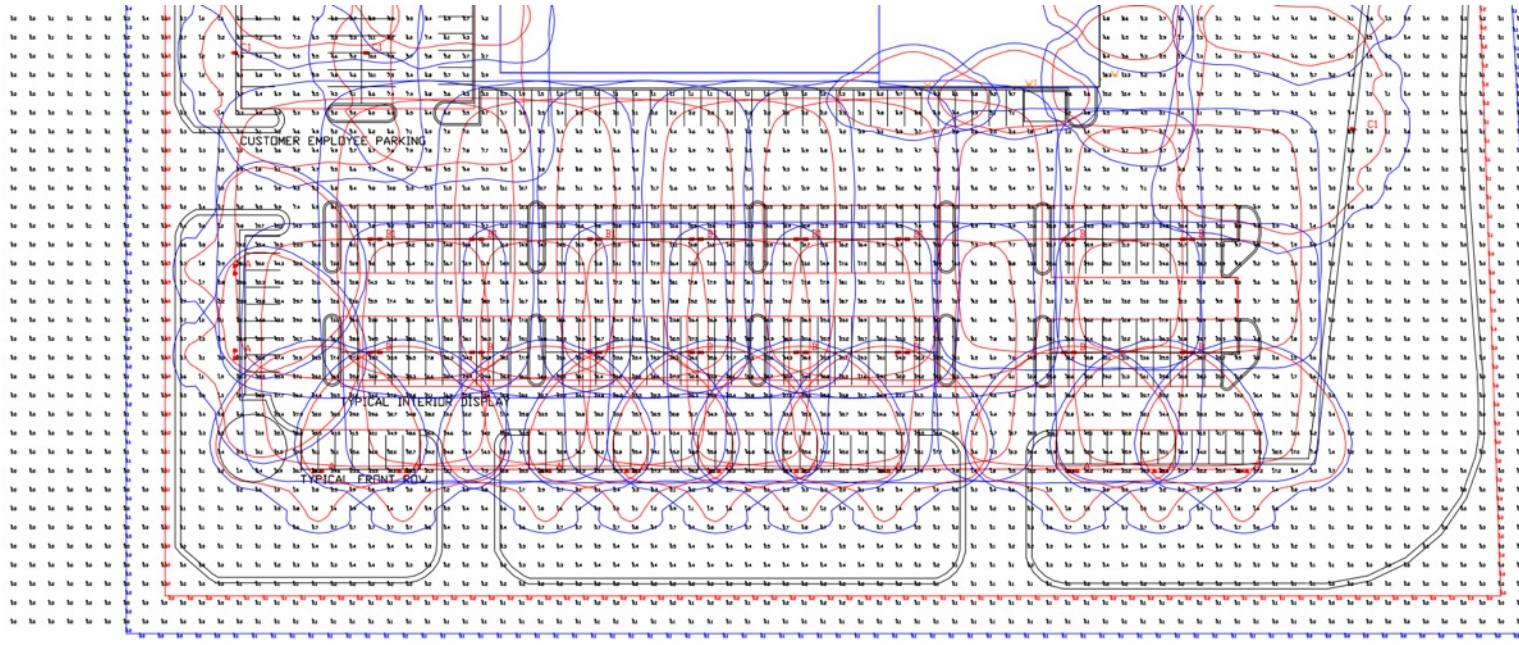
Photometric Performance – Pole/Head Reduction



	Competitor D
Poles	56
Luminaires	94
Front Row Min / Avg	12 FC / 35 FC
Interior Display	7.5 FC / 20 FC
Total Wattage Draw	40,984



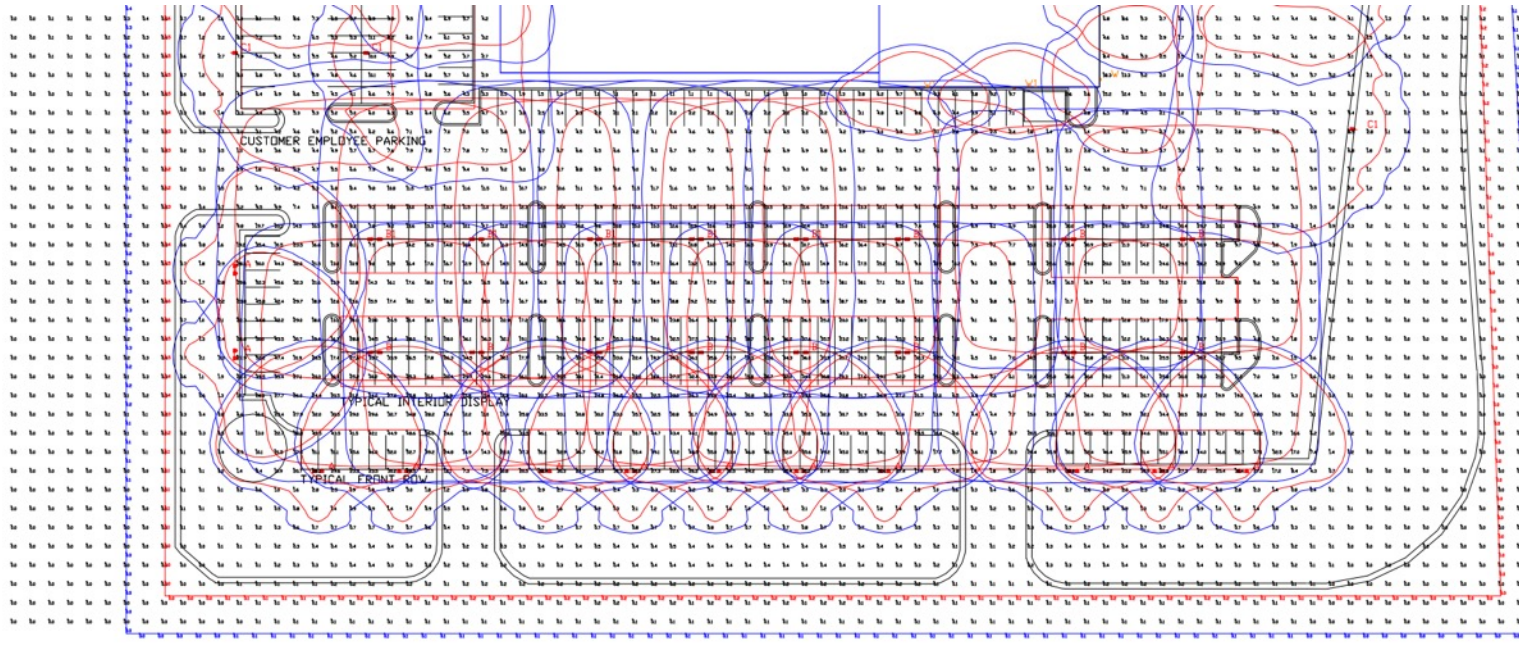
Photometric Performance – Pole/Head Reduction



	Competitor D	V-LOCITY 54L 1 for 1 Match Lumens
Poles	56	56
Luminaires	94	94
Front Row Min / Avg	12 FC / 35 FC	17.4 FC / 40.2 FC
Interior Display	7.5 FC / 20 FC	7.4 FC / 21.1 FC
Total Wattage Draw	40,984	31,208

24% Energy Savings

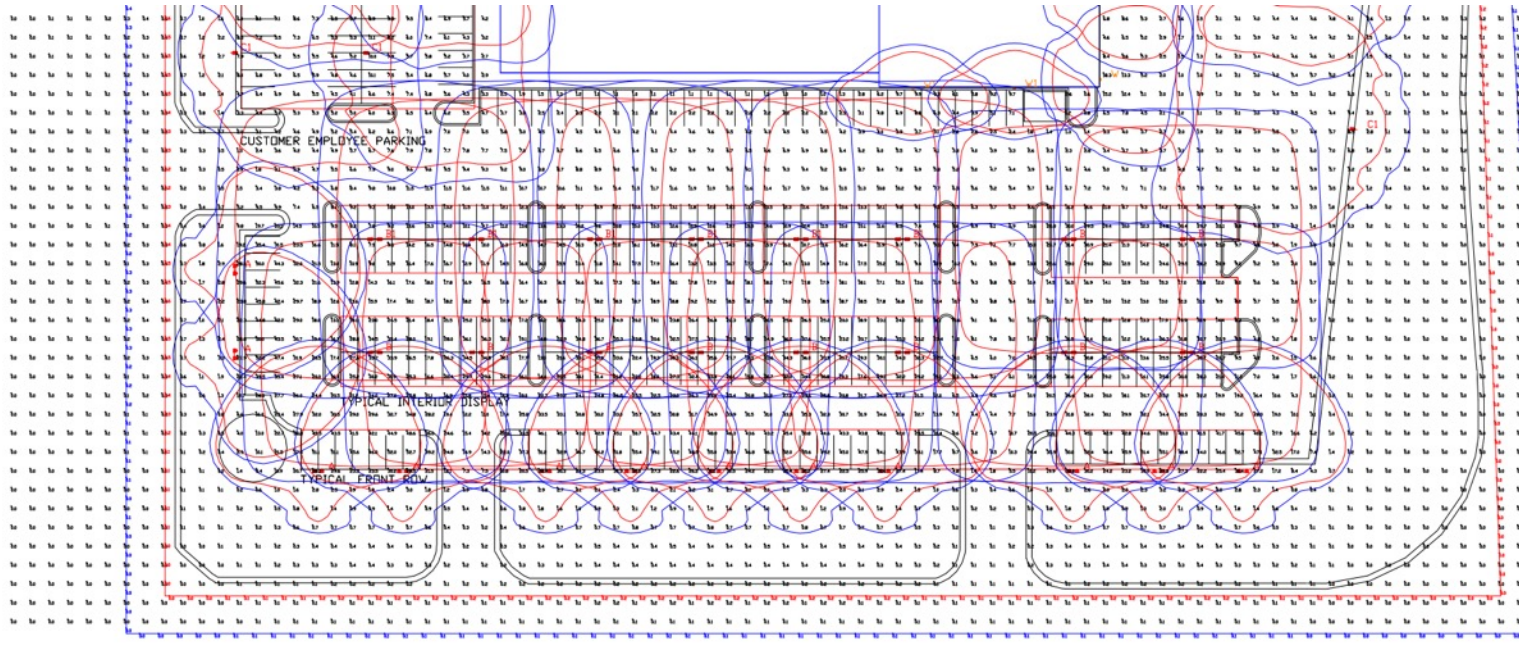
Photometric Performance – Pole/Head Reduction



	Competitor D	V-LOCITY 54L 1 for 1 Match Lumens	V-LOCITY 42L 1 for 1 Match Light Levels
Poles	56	56	56
Luminaires	94	94	94
Front Row Min / Avg	12 FC / 35 FC	17.4 FC / 40.2 FC	11.3 FC / 34.9 FC
Interior Display	7.5 FC / 20 FC	7.4 FC / 21.1 FC	7.4 FC / 21.1 FC
Total Wattage Draw	40,984	31,208	23,594

42% Energy Savings

Photometric Performance – Pole/Head Reduction



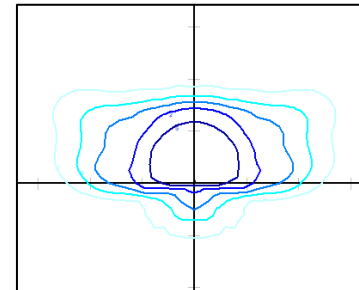
13 fewer poles
18 fewer luminaires
38% Energy Savings

	Competitor D	V-LOCITY 54L 1 for 1 Match Lumens	V-LOCITY 42L 1 for 1 Match Light Levels	V-LOCITY 54L New Design
Poles	56	56	56	43
Luminaires	94	94	94	76
Front Row Min / Avg	12 FC / 35 FC	17.4 FC / 40.2 FC	11.3 FC / 34.9 FC	19.6 FC / 37.4 FC
Interior Display	7.5 FC / 20 FC	7.4 FC / 21.1 FC	7.4 FC / 21.1 FC	9.8 FC / 23.3 FC
Total Wattage Draw	40,984	31,208	23,594	25,232

Glare Control

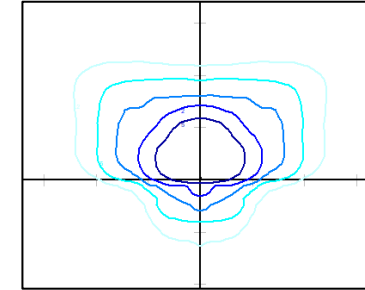


3M



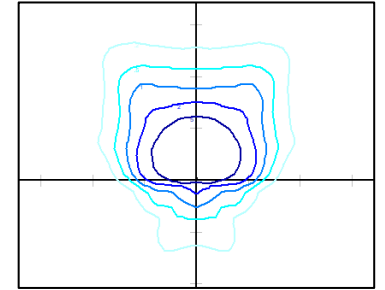
Type 3 Medium

FTM



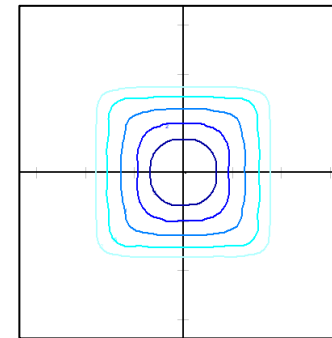
Forward Throw
Medium

4M



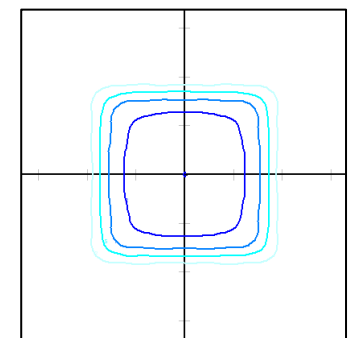
Type 4 Medium

5QN



Type 5 Square Narrow

5QM



Type 5 Square Medium

Glare Control – Type 4 Medium



Best in Class
Forward Throw



AcuityBrands.



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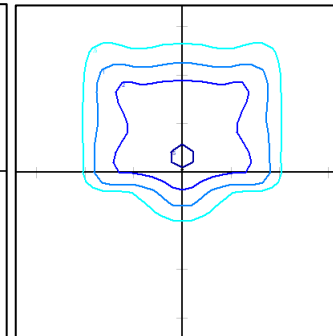
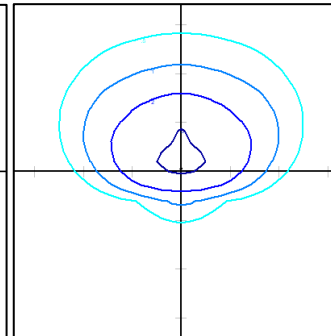
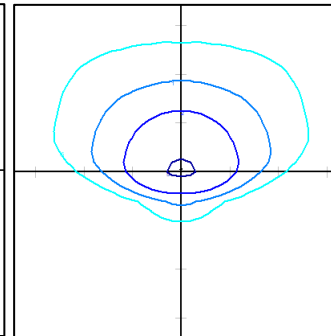
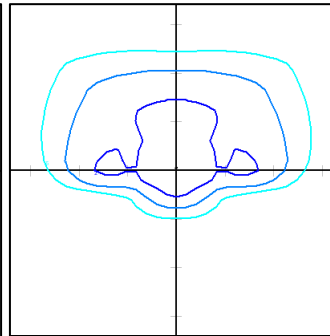
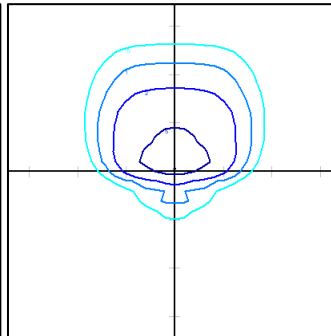
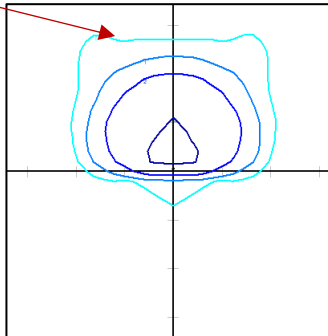


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Current @

Type 4M Distribution
Max G2 Rating
4000K CCT
20' Mounting Height



Total Lumens	12,024	11,161	11,415	11,423	12,878	11,178
% Backlight	9%	15%	23%	21%	18%	18%
Street Lumens	10,921	9,537	8,858	9,033	10,505	9,144
Watts	72	90	82	84	91	92
Efficacy	167	124	140	136	142	121
Glare Rating	G2	G2	G2	G2	G2	G2

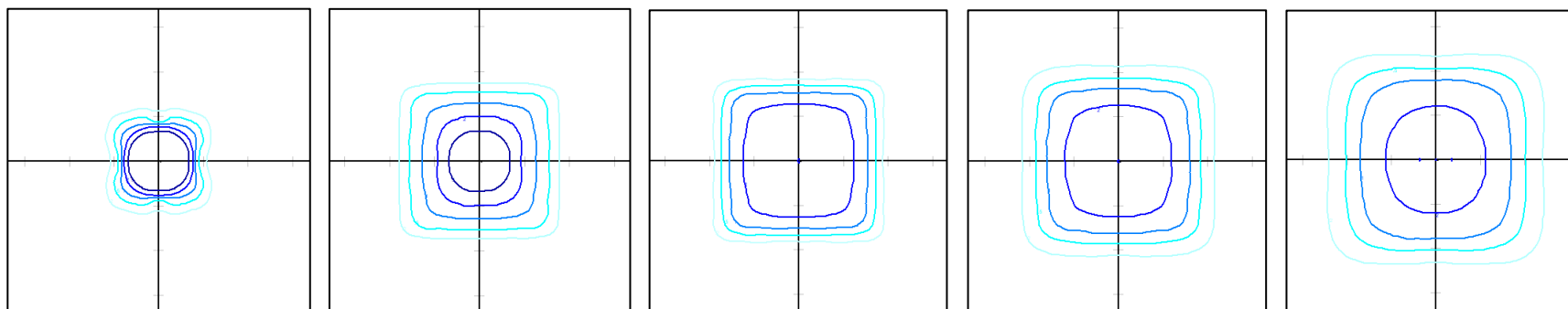
Most Light on Target

5 FC 2 FC 1 FC 0.5 FC

Glare Control – Symmetric Optics



12L 4000K



	WF	5QN	5QM	5Q	5QW
1.0 FC Spacing	2.2 MH	3.4 MH	4.4 MH	4.4 MH	4.4 MH
0.5 FC Spacing	2.8 MH	4.4 MH	5.4 MH	5.6 MH	5.8 MH
Glare Rating	G0	G1	G2	G2	G3
0.1 FC Spill	2.0 MH	2.5 MH	3.0 MH	3.7 MH	4.4 MH

Glare Control – LED Count



	VALS	OSQ	VP ST	VP MS	P15 P	P15 C
Total Lumens	LED Count					
3,000	40	32	36	160	32	N/A
6,000	40	64	36	160	32	N/A
9,000	40	64	36	160	48	N/A
12,000	40	64	36	160	48	N/A

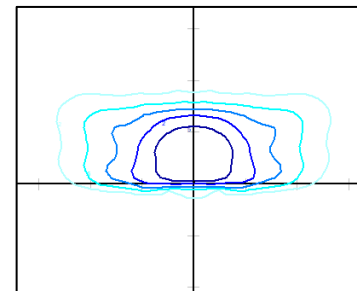
Depopulation of LEDs at lower outputs

Poor/Unacceptable Performance

Spill Light Control

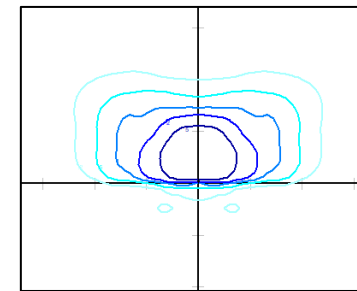


3M IS



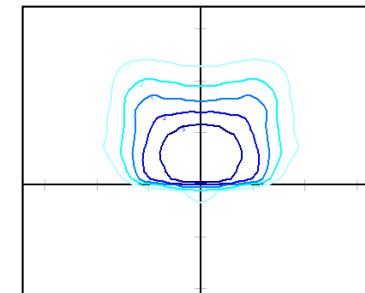
Type 3 Medium

FTM IS



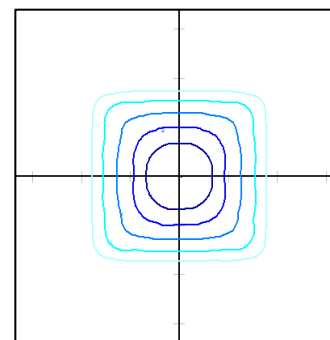
Forward Throw
Medium

4M IS



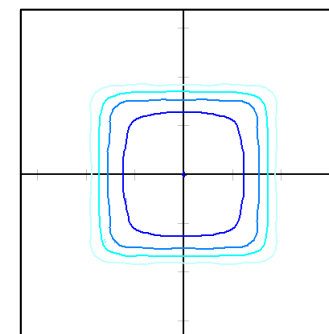
Type 4 Medium

5QN



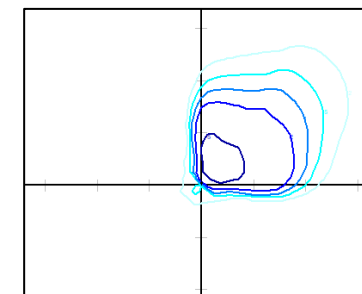
Type 5 Square
Narrow

5QM



Type 5 Square
Medium

LC/RC IS

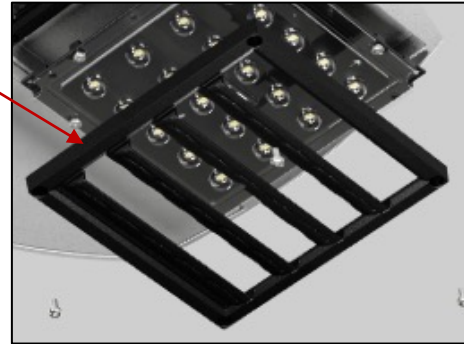


Corner

Spill Light Control – Integral Shielding



(IS) Integral Shield



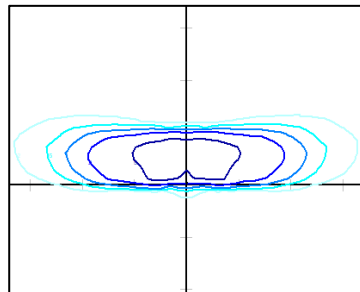
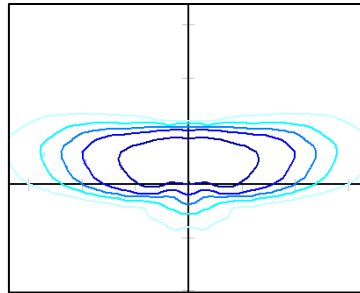
w/ Shield

w/out Shield

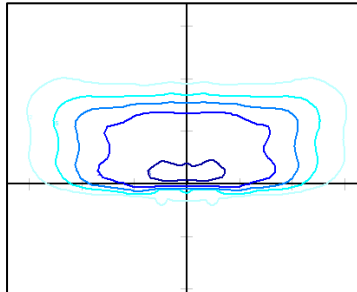
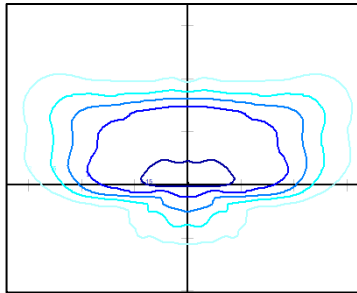
Standard Optic
6-16% Backlight

w/Integral Shield
1-5% Backlight

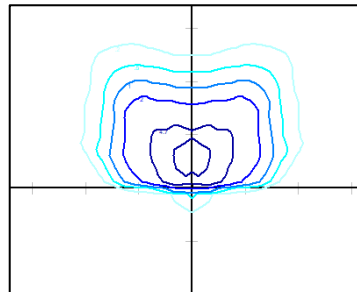
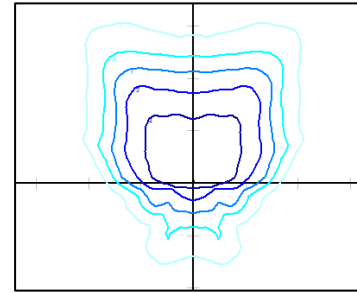
Type 2



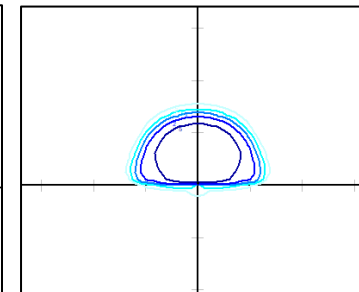
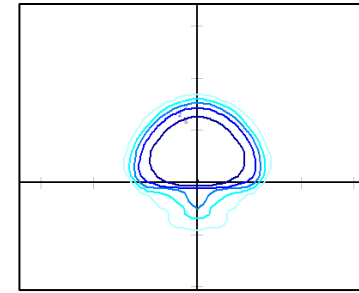
Type 3



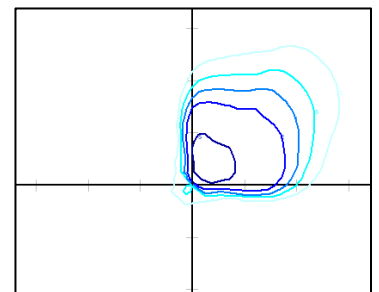
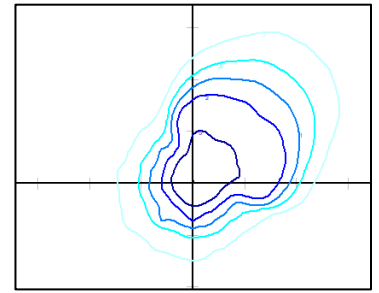
Type 4



Auto



Corner



Spill Light Control – Type 4 w/Shield



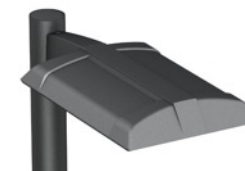
Acuity Brands.



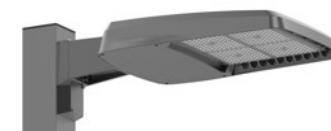
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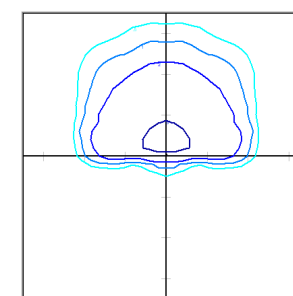
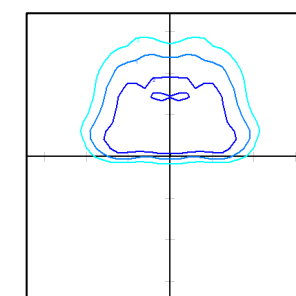
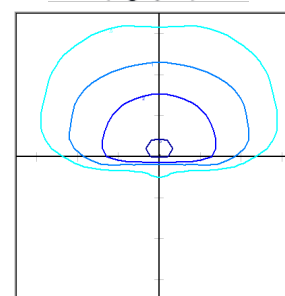
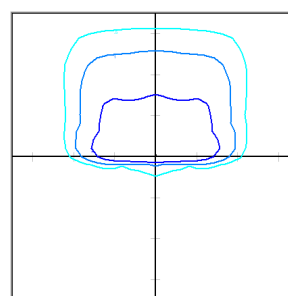
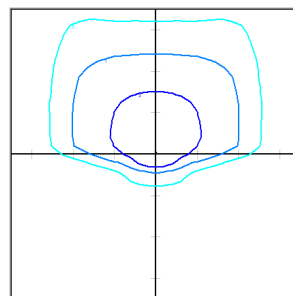
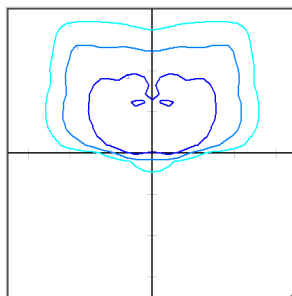


Current @



Current @

Type 4 Distribution
~24,000 Lumens*
4000K CCT
25' Mounting Height
Backlight Shield



Total Lumens	17,777	19,032	16,629	19,448	14,069	21,611
% Backlight	3.8%	12.7%	8.4%	9.2%	3.6%	6.4%
Street Lumens	17,098	16,613	15,236	17,662	13,557	20,221
Watts	153	184	184	169	198	210
Efficacy	116	103	90	115	71	103
Backlight Rating	B1	B2	B2	B2	B1	B1

*Nominal Lumen Output w/out Shielding

Mounting



Universal Side Arm



Mast Arm



Wall Bracket



Universal Adjustable Arm



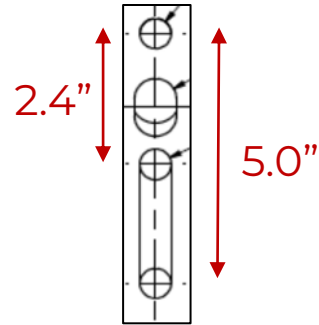
Adjustable Slipfitter





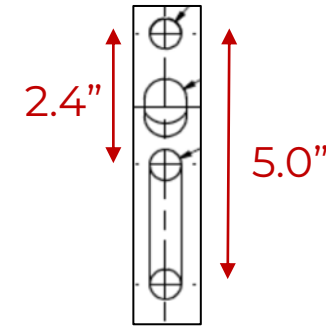
Mounting Details

Universal Side Arm



Mounts to Round or Square Pole (no adapter needed)

Universal Adjustable Arm



Mounts to Round or Square Pole (no adapter needed)

65° of Adjustable Tilt (-5° to +60° adj. range)

Adjustable Slipfitter



180° of Adjustable Tilt (60° max above horizontal)

Mounts to 2 3/8" Horizontal or Vertical Tenon

Mast Arm



Mounts to a 1 7/8" to 2 3/8" Horizontal Tenon

Bubble Level with -5° to +7.5° of Adjustability

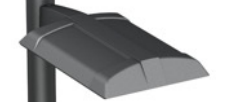
Replaceable Light Engine



- Field replaceable optic/board
- On site modification of color temperature and/or optical distribution with new engine
- Improved luminaire reliability
- Field rotatable optics
- Ability to “upgrade” to latest LED technology years down the road

Competitive Comparison



	Well-Hidden Heat Fins	Interchangeable Mounting	Up to 180 LPW	Black Lens Aperture	50°C Standard	15+ Optical Distributions	Replaceable Light Engine
 							
 							
 							
 							
 							
 							

Questions?

