

Day-Brite



by Signify

Recessed

EvoGrid 1x4

1EVG up to 4500 lumens



Day-Brite / CFI EvoGrid recessed utilizes highly reliable and efficient Philips LED platform boards and dimmable driver enabling market leading performance in its category. Its soft opal diffuser with large luminous area minimizes apparent brightness compared to other basket luminaires and provides general lighting perfect for a wide variety of applications.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: 1EVG30L840-4-D-UNV-DIM

Width	Family	Ceiling Type	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options
1	EV	G		—	4	—	—	—	
1 1'	EV EvoGrid	G Grid	30L 3000 38L 3800 45L 4500	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	D Diffuse (opal) DS Diffuse smooth (opal) R Diffuse round ribbed (opal)	UNV Universal Voltage, 120-277 volt 120 ¹ 120V 277 ¹ 277V 347 347V	DIM ^{2,7} Dimming Step dimming to 40% input power SDIM MarkX phase dimming XDIM ¹ Lutron LDE5, 5% dimming DALI DALI	AG Antimicrobial finish F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/SW 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/GW 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow GTD/E ⁸ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR ^{8,9} UL924 listed Bodine GTD installed between driver & sensor DSC Quick driver disconnect EMLED ³ Integral emergency battery pack, 1100lm nominal (ballast enclosure on top of luminaire) IAP ⁵ Integral Interact Pro RF sensor, enables wireless connected lighting control IAO ⁵ Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control SWZG2 ^{4,5} Integral sensor, daylighting and occupancy, advanced grouping with dwell time and zoning SWZDT ⁵ Integral sensor, daylighting and occupancy, advanced grouping with dwell time CHIC Chicago Plenum rated CRM ⁶ Continuous row mount

Footnotes

- 1 XDIM requires 120V or 277V specification.
- 2 Integral controls options dimmable to 5% via wireless all switch. See page 2.
- 3 EMLED option overall luminaire height is 4-1/8".
- 4 Must order SWZ-REMOTE SpaceWise handheld remote with each system order.
- 5 Specify only with -DIM driver option.
- 6 CRM includes side cover with top access plate and additional end cover. 7/8" gap between fixtures.

- 7 Non-controls and SWZG2 configurations are 0-10v dimmable to 1%.
- 8 Must be installed in conjunction with a UL1008 device.
- 9 Must be ordered with an integral controls option. Not available with SWZG2 controls option.

SpaceWise (SWZG2) accessories (order separately)

- **SWZ-REMOTE** – SpaceWise handheld remote for grouping and configuration (at least one remote required for any SpaceWise installation)
- **UID8451/10** – Wireless Dimmer Switch Selector
- **UID8461/10** – Wireless Scene Selector

Other accessories (order separately)

- **FMA14** – 1'x4' "F" mounting frame for NEMA "F" mounting
- **EVD14L** – EvoGrid 1'x4' rectangular ribbed replacement lens
- **EVDS14L** – EvoGrid 1'x4' rectangular smooth replacement lens
- **EVRI14L** – EvoGrid 1'x4' round ribbed replacement lens
- **FSK14** – 1'x4' surface mount field installation kit (factory welded seams) order with -TAP (top access plate) option (SWZG2 and EMLED option not available)
- **FSF14** – 1'x4' surface mount field assembly kit, order with -TAP (top access plate) option (SWZG2 and EMLED option not available)



interact ready.

1EVG EvoGrid recessed 1x4

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Ordering guide – PoE controls (Static & Tunable White)

example: 1EVG45L8TW-4-D-LV-POE-IAO

Width	Family	Ceiling Type	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options	
1	EV	G		–	4 –	–	LV –	POE –		
1 1'	EV EvoGrid	G Grid	30L 3000 38L 3800 45L 4500	<u>Static White</u> 830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K <u>Color Tuning</u> 8TW 80CRI, 2700K thru 6500K tunable white	4 4'	D Diffuse (opal) DS Diffuse smooth (opal) R Diffuse round ribbed (opal)	LV Low voltage	POE Power over ethernet	AG EMPOE¹ IAO	Antimicrobial finish 600lm integral emergency driver and battery pack Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control

¹ Indicator light and test switch located on housing side panel.

Ordering guide – DALI Controls (Tunable White)

example: 1EVG45L8TW-4-D-UNV-DTW-IAO

Width	Family	Ceiling Type	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options	
1	EV	G		–	4 –	–	UNV –	DTW –		
1 1'	EV EvoGrid	G Grid	37L 3700 45L 4500 50L 5000	8TW 80CRI, 2700K thru 6500K tunable white	4 4'	D Diffuse (opal) DS Diffuse smooth (opal) R Diffuse round ribbed (opal)	UNV Universal Voltage, 120-277 volt	DTW Dual channel tunable white	AG F1/D F2/7W EMLED IAO GLR DSC	Antimicrobial finish 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires 3/8" single flex, 7 wire 18 gauge 6' for emergency Factory wired Bodine BSL310 integral emergency pack. Nominal 1100lm Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control Fusing, fast blow Quick driver disconnect

1EVG EvoGrid recessed 1x4

up to 4500 lumens

Application

- A highly efficient, visually comfortable, architecturally styled recessed LED luminaire designed with a minimalistic strategy to achieve sustainable objectives.
- Low profile standard configuration is only 2-7/8" deep requiring minimal plenum space. Integral emergency (EMLED) configuration is 4-1/8" deep.
- Soft opal diffuser with large luminous area minimizes apparent brightness and provides high visual comfort perfect for a wide variety of general lighting applications like offices, schools, retail, or healthcare.
- Multiple lumen packages over a wide range to provide significant application flexibility over light levels and/or luminaire spacing.
- Directs a controlled amount of light to the higher angles in the room to balance the brightness of the surfaces and eliminate "cave effect" while creating the impression of a larger, brighter space without glare.
- Excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since dimming or frequent switching does not degrade the performance or life of the source. Integral or external sensors are available for use.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster requirements can be accommodated by using an FMA14 "F" mounting frame (sold separately.)
- Continuous row mount option (CRM) includes wireway covers on each end and on one side of housing.

Construction/Finish

- Uncomplicated design is 2-7/8" (standard configuration) in depth and only requires a few parts outside of the electrical system and hardware, creating several benefits:
 - Less material required
 - Less packaging required
 - Reduced weight
 - Less energy required for construction and assembly
 - More luminaires can be shipped per truck to reduce fuel use and emissions
- Luminaire finish is matte white polyester for a high quality, durable finish.
- T-bar grid clips are integral to body.
- Access plate located on end provides easy field wiring. TAP option provides top mounted access plate.

Electrical

- Integral sensor options for occupancy sensing and/or daylight harvesting are available for additional energy savings with no reduction of life or increase in installation labor.
- Total luminaire efficacy as high as 135 LPW (lumens per Watt).
- LED board is easily accessible from below without tools. Single LED board is replaceable if needed via plug-in connectors to ensure long service life.
- LED driver is accessible from above.
- Emergency driver is accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10. Typical lumen output is 1300lm for EMLED.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.

- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.
- Step dimming default is 100/40%. Contact factory for additional low trim options.
- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 80,000 hours.
- cETLus listed to UL and CSA standards, suitable for damp locations.
- EvoGrid luminaires are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL

Enclosure

- Opal diffuser provides soft, comfortable lighting while maintaining high efficiency.
- Diffuser requires no frames or fasteners and can be easily removed from below without tools if needed.

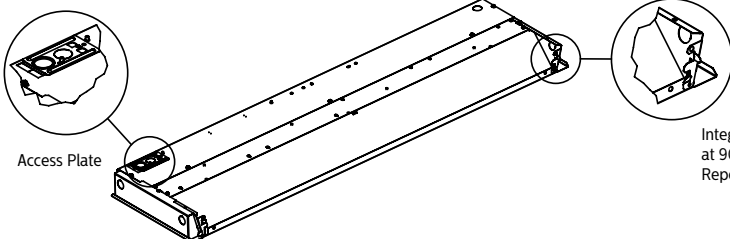
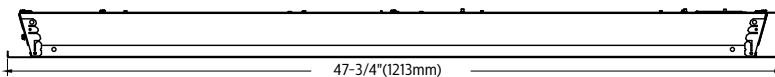
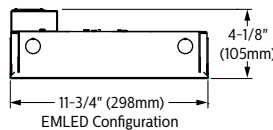
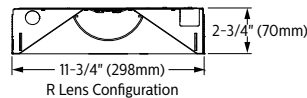
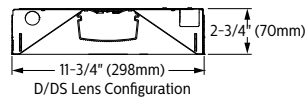
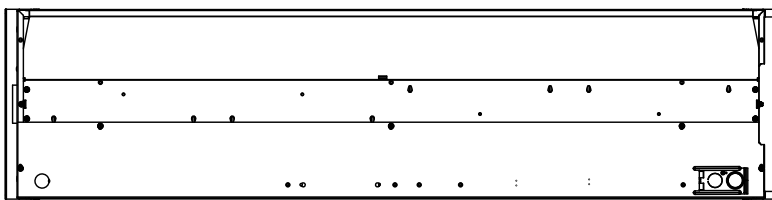
General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
1x4	1EVG30L840-4-D	23	129
	1EVG38L840-4-D	29	128
	1EVG45L840-4-D	36	126
	1EVG30L840-4-R	23	135
	1EVG38L840-4-R	29	135
	1EVG45L840-4-R	34	134

Dimensions



Integral Grid Clips – Bend upper tab outward at 90°. Bend lower tab outward approx. 20°. Repeat for all four corners.

1EVG EvoGrid recessed 1x4

up to 4500 lumens

Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping and dwell time
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

SpaceWise (SWZG2)

- Commissioning via SWZ-REMOTE handheld remote, must order a minimum of one per installation
- Integral sensing options may not be combined
- 0-10V dimmable to 1%
- For more information on the sensor, please refer to www.lightingproducts.signify.com/documents/webdb2/DayBrite/pdf/SWZG2_sensor.pdf
- Visit www.usa.lighting.philips.com/systems/lighting-systems/spacewise for more information about SpaceWise Technology (SWZG2)

Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to **small and medium businesses** without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone)
- Prepare commissioning remotely via Interact Pro portal
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1)
- For more information on Interact Pro visit: www.interact-lighting.com/pro
- For more information on Interact Ready visit: www.philips.com/interact-ready

EvoGrid shown with integral sensor



SWZG2 sensor shown.

All other controls options have the sensor centrally located centered on one end flange.

Interact Office (IAO)

- A wireless IoT connected lighting solution for **large enterprises** that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

Wired Controls Options

Interact Office Wired (PoE), Static White & Tunable White

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Human centric lighting through tunable white technology – Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

Tunable White with DALI

- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

www.usa.lighting.philips.com/products/product-highlights/tunable-white-technology

1EVG EvoGrid recessed 1x4

up to 4500 lumens

Photometry

1x4 EvoGrid LED recessed, 3800 nominal delivered lumens

LER – 128

Catalog No. 1EVG38L840-4-D-UNV-DIM Test No. 35203 S/MH 1.2 Lamp Type LED Lumens 3780 Input Watts 29.5 Comparative yearly lighting energy cost per 1000 lumens – \$1.88 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower	Light Distribution	Average Luminance																																																																																																																																							
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1x4 EvoGrid LED recessed, 3800 nominal delivered lumens

LER – 136

Catalog No. 1EVG38L840-4-R-UNV-DIM Test No. 38716 S/MH 1.3 Lamp Type LED Lumens 3985 Input Watts 29 Comparative yearly lighting energy cost per 1000 lumens – \$1.76 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. Photometric values based on test performed in compliance with LM-79.	Candlepower	Light Distribution	Average Luminance																																																																																																																																							
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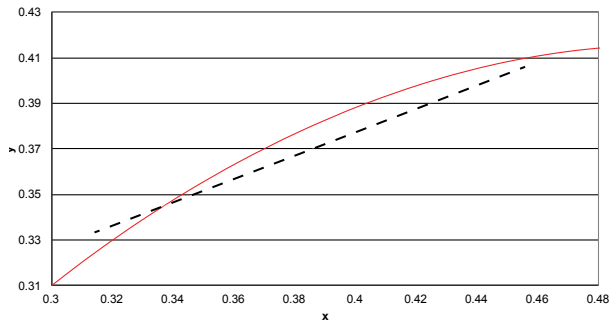
1EVG EvoGrid recessed 1x4

up to 4500 lumens

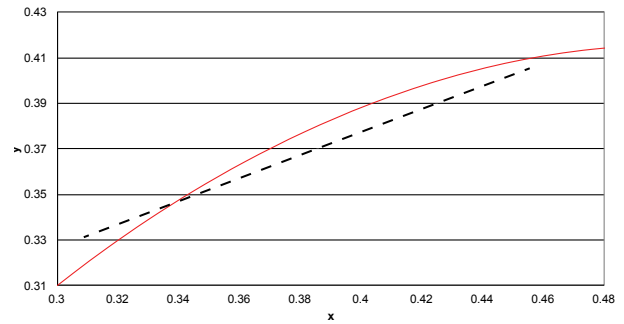
Tunable White with PoE

Color Information

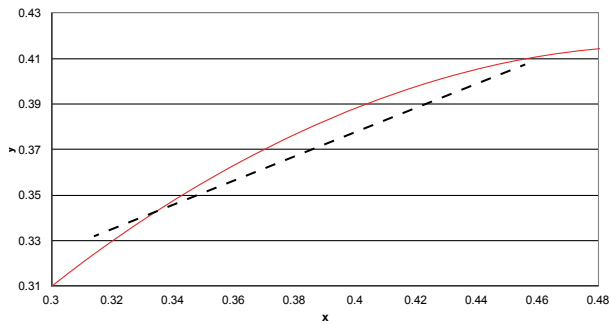
1x4 EvoGrid 3000lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	3019	3017	3015	3013	3010	3007
Power	24	24	23	23	23	22
Efficacy	127	128	130	131	133	136
CCT	83	85	86	87	86	82
CRI	18	24	31	34	29	11
R9	18	23	31	34	31	11



1x4 EvoGrid 3800lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	3845	3845	3846	3846	3847	3848
Power	30	29	29	29	28	28
Efficacy	130	132	133	135	137	138
CCT	83	85	86	87	86	82
CRI	18	25	31	34	29	11
R9	18	23	31	34	31	11



1x4 EvoGrid 4500lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	4525	4527	4530	4532	4535	4538
Power	39	36	35	34	33	34
Efficacy	117	126	130	133	137	136
CCT	83	84	86	86	85	82
CRI	17	24	31	34	29	11
R9	18	23	31	34	31	11



1EVG EvoGrid recessed 1x4

up to 4500 lumens

Tunable White with DALI

Electrical Specifications

Input Voltage	120V			277V		
Nominal CCT	2700K			2700K		
Nominal Lumens	3700lm	4500lm	5000lm	3700lm	4500lm	5000lm
Commissioned State						
Power (W)	36.5	44.3	50.0	36.3	44.0	49.5
Current (A)	0.31	0.38	0.42	0.16	0.18	0.2
Power Factor	0.98	0.99	0.99	0.85	0.88	0.90
THD (%)	15	14	12	18	17	16
Off State Power (W)	0.6	0.6	0.6	0.9	0.9	0.9
Non-Commissioned State						
Power (W)	67.0	83.0	92.0	66.0	82.0	91.0
Current (A)	0.56	0.70	0.78	0.26	0.32	0.35

Photometry

1x4 EvoGrid recessed LED with tunable white, 3700 nominal delivered lumens, 2700K CCT

LER - 106

Catalog No.	1EVG37L8TW-4-D-UNV-DTW	Candlepower				Light Distribution			Average Luminance			
Test No.	36222	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Zone	End	45°	Cross
S/MH	1.2	0	1491	1491	1491	0-30	1122	29.5	45	12226	13192	13651
Lamp Type	LED	5	1468	1482	1486	0-40	1801	47.3	55	10954	12528	13229
Lumens	3807	15	1394	1410	1416	0-60	3094	81.3	65	9801	11755	11437
Input Watts	36	25	1251	1270	1280	0-90	3807	100.0	75	8528	8919	7098
		35	1053	1088	1106	0-180	3807	100.0	85	6663	1687	1459
		45	829	895	926							
		55	603	689	728							
		65	397	477	464							
		75	212	221	176							
		85	56	14	12							
Comparative yearly lighting energy cost per 1000 lumens – \$2.26 based on 3000 hrs. and \$.08 pwr KWH.												
The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.												
Photometric values based on test performed in compliance with LM-79.												
Coefficients of Utilization												
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)												
pcc	80			70			50					
pw	70	50	30	70	50	30	50	30	50	30		
RCR												
0	118	118	118	115	115	115	111	111	111	111		
1	109	105	101	107	103	98	97	94	94	94		
2	100	92	84	96	90	83	85	81	81	81		
3	91	81	72	89	79	71	76	69	69	69		
4	82	71	63	81	69	61	68	60	60	60		
5	77	64	55	75	63	55	60	54	54	54		
6	70	57	48	68	56	48	55	47	47	47		
7	66	53	44	64	52	44	50	42	42	42		
8	60	47	40	59	46	39	46	39	39	39		
9	56	44	35	56	44	35	41	34	34	34		
10	54	40	33	53	40	33	39	32	32	32		

1EVG EvoGrid recessed 1x4

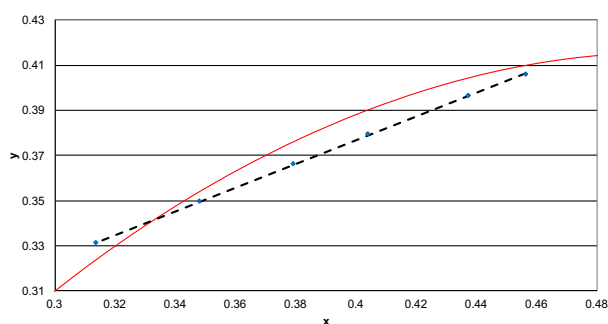
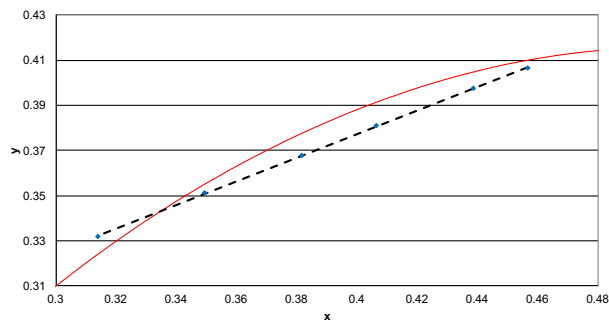
up to 4500 lumens

Tunable White with DALI

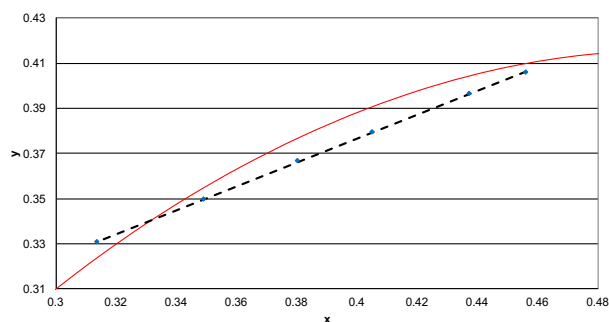
Color information

1x4 EvoGrid 3700lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	3725	3757	3737	3785	3653	3643
Power	36.4	38.1	35.7	34.9	32.9	29.8
Efficacy	102.3	98.7	104.8	108.6	111.0	122.1
CCT	2716	2919	3393	3904	4836	6423
CRI	83	84	86	87	86	82
R9	18	23	31	34	31	11
x	0.4565	0.4385	0.4064	0.3814	0.3494	0.3138
y	0.4065	0.3974	0.3809	0.3679	0.3510	0.3321
Duv	-0.0012	-0.0029	-0.0046	-0.0045	-0.0020	0.0042

1x4 EvoGrid 4500lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	4460	4549	4600	4708	4607	4632
Power	44.2	45.5	43.1	42.5	40.6	38.3
Efficacy	100.8	99.9	106.7	110.9	113.6	120.9
CCT	2718	2937	3436	3960	4892	6448
CRI	83	84	86	87	86	82
R9	17	23	31	34	30	11
x	0.4562	0.4369	0.4039	0.3790	0.3477	0.3135
y	0.4063	0.3965	0.3794	0.3663	0.3496	0.3312
Duv	-0.0013	-0.0030	-0.0047	-0.0046	-0.0020	0.0039



1x4 EvoGrid 5000lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux	4950	5040	5070	5169	5017	4982
Power	49.7	50.7	47.6	46.5	44.0	41.4
Efficacy	99.7	99.3	106.6	111.1	113.9	120.3
CCT	2719	2933	3417	3929	4853	6454
CRI	83	84	86	87	86	82
R9	17	23	31	34	31	11
x	0.4560	0.4372	0.4049	0.3802	0.3488	0.3134
y	0.4061	0.3966	0.3798	0.3668	0.3500	0.3309
Duv	-0.0013	-0.0030	-0.0048	-0.0047	-0.0023	0.0038



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