Day-Brite CFI
by Signify

Recessed

FluxGrid gen 2 1x4

2FGX up to 5400 lumens

RS diffuse round smooth

FS diffuse flat smooth

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI FluxGrid gen 2 LED recessed offers architectural appeal with "must have" features. Two different lens styles, discrete air return, integral emergency, and access to the boards and driver from below make FluxGrid gen 2 an ideal solution for a wide range of applications.

Ordering guide – standard & wireless controls
Standard configurations available with all choices, unless otherwise noted. Base configurations selections indicated by blue.

example: 1FGXG42B840–4–RS–UNV–DIM

Width	Family	Ceiling Type	Air Function	Lumens (nominal delivered)	Color	Length	Center Diffuser	Voltage	Driver	Options	
1	FGX	G				4					
1 1'	FGX FluxGrid	G Grid	Blank Static H Air return	Base Configurations 42B 4200 Standard Configurations 15L 1500 30L 3000 38L 3800 45L 4500 54L 5400 Standard configuration lumen packages may be ordered in increments of 100lms from the lowest to highest lumen package	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K 935⁵ 90 CRI, 3500K 940⁵ 90 CRI, 4000K 950⁵ 90 CRI, 5000K	4 4'	FS Diffuse flat smooth RS Diffuse round smooth	UNV Universal voltage 120–277V 347 347V	DIM¹ Dimming SDIM Step dimming to 40% input power XDIM⁹,¹⁰ MarkX phase dimming LDE⁵ Lutron LDE5 5% dimming DALI DALI	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 F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and EMLED luminaires GLR Fusing, fast blow BSL10LST⁴ Bodine 10W self-testing battery pack BSL6LST⁴ Bodine 6W self-testing battery pack DSC Quick driver disconnect CHIC³ Chicago Plenum rated ER100⁶,⁷ UL924 listed sensor bypass relay, factory installed between driver & sensor GTD/E⁴,⁶ UL924 listed Bodine GTD factory installed on driver input GTD/SNSR⁴,⁶,⁷ UL924 listed Bodine GTD factory installed between driver and sensor SWZCS²,⁸ Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDT² SpaceWise only sensor, daylighting and occupancy, advanced grouping with dwell time RADIO² Interact Pro RF sensor, enables wireless connected lighting control IAOSB²,⁸ Interact Office advanced wireless sensor bundle, integral SC1500 w/IoT capabilities for enterprise scale projects AG Antimicrobial finish BAC¹¹ Meets the requirements of the Buy American Act of 1933 (BAA)	

1 Integral controls options dimmable to 5% via wireless wall switch. Non-controls options are 0-10v dimmable to 1% for Standard configurations,and to 10% for Base configurations.
2 Specify only with -DIM driver option.
3 CHIC option not provided with air return functionality.
4 Not available with 347V.
5 Option is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory.
6 Must be installed in conjunction with a UL1008 device.
7 Must be ordered with an integral sensing option.
8 Must order IRT9015 Interact commissioning remote with each system order.
9 XDIM requires 120V or 277V specification.
10 Only available in lumen package range from 45L–54L
11 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
12 Consult Signify to confirm whether specific accessories are BAA-compliant.

Accessories¹² (order separately)
• **FSF14** – 1'x4' surface mount field installation kit (field assembled)
• **FMA14** – 1'x4' "F" mounting frame for NEMA "F" ceiling
• **FSK14** – 1'x4' surface mount field installation kit (factory welded seams)

SWZCS accessories¹⁰ (order separately)
• **IRT9015** – handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).
• **UID8451/10** – Wireless Dimmer Switch Selector
• **UID8461/10** – Wireless Scene Selector

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search

interact ready.

1FGX   FluxGrid gen 2 recessed 1x4

up to 5400 lumens

Application
- 3-1/8" deep low profile configuration provides minimal penetration into the plenum space.
- Acrylic diffusers available in round and flat smooth configurations which provides even illumination with comfortable appeal.
- Standard and base configurations available in multiple lumen packages to suit the needs of various applications.
- Lambertian distribution creates uniform horizontal and vertical illuminance on the work plane and reduces scalloping on the walls.
- CRI 80 minimum color rendering with balanced spectrum.
- LEDs coupled with standard dimming provide prolonged lumen maintenance. Optional integral sensors contribute further to LED lumen maintenance.
- 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 mounting is possible with a 1" gap between fixtures accommodated by others.

Enclosure
- Opal acrylic diffuser provides visually comfortable lumenance without compromise to luminaire efficacy.
- Diffuser requires no frames or fasteners and can be easily removed from below.

Construction/Finish
- Uncomplicated design is 3-1/8" deep with minimal material overlap creating several benefits:
  - Less material required
  - Less packaging required
  - Reduced weight for ease of handling and transit
  - Less energy required for construction and assembly
  - More luminaires can be shipped per truck to reduce fuel consumption
- Metal side covers are die formed with a conical shape to enhance light distribution and visual aesthetic.
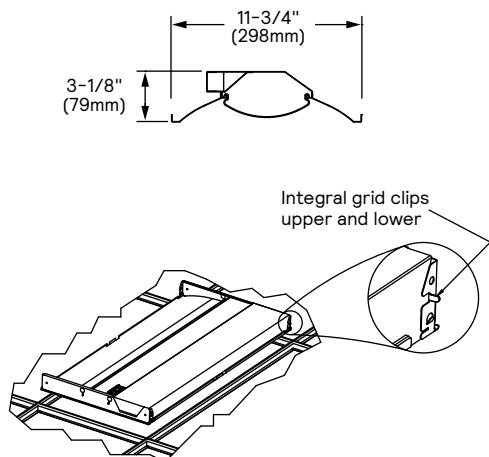
- Luminaire finish is matte white polyester powder coat for high quality, durable finish.
- T-bar grid clips are integral to the body.
- Air return option provides air flow through architectural forms located at each end of the lens. Air passes through these forms and through the end plates of the luminaire. A cover plate is provided to control air flow through the luminaire, or make it static as required.
- Integral controls options include sensor mounted architectural form at one end of the lens.
- Bodine BSL10LST and BSL6LST options require the emergency battery pack be installed with a top side cover. Access from above.
- To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
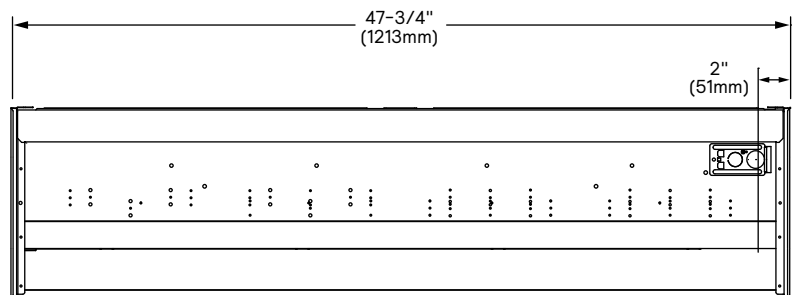
General notes
- All options are factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

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.
- Standard configurations provide up to 146 lumens per watt and are available with multiple lumen packages and 3000, 3500, 4000, and 5000K color temperatures.
- Base configuration provides up to 139 lumens per watt and are available in 4200 lumen flux and 3500K and 4000K color temperatures.
- LED boards are accessible from below by removal of the lens.
- LED driver is accessible from below by removal of the lens and integral wireway cover.

- Other driver options including step dimming (SDIM, 100%/40%), DALI, phase dimming (XDIM), and Lutron are available.
- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.
- TM-21 predicted L70 lumen maintenance up to 85,000 hours.
- cETLus listed to UL and CSA standards, suitable for damp locations.

Energy data

Luminaire	Catalog Number	Input Power	Efficacy
1x4 Standard	1FGXG15L840-4-RS-UNV	10	146
	1FGXG30L840-4-RS-UNV	21	143
	1FGXG38L840-4-RS-UNV	27	140
	1FGXG45L840-4-RS-UNV	34	137
	1FGXG54L840-4-RS-UNV	41	133
1x4 Base	1FGXG42B840-4-RS-UNV	30	139

Dimensions

11-3/4" (298mm)

3-1/8" (79mm)

Integral grid clips upper and lower

47-3/4" (1213mm)

2" (51mm)

1FGX FluxGrid gen 2 recessed 1x4

up to 5400 lumens

Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking 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

Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output

- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

FluxGrid shown with integral sensor

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS and an evolution of SpaceWise)

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.

- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.

- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.

- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.

- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.

- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.

  - Compatible with:
    - UID8451/10 wireless dimmer switch
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
    - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH

- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.

- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.

Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.

- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.

- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.

- Requires compatible Gateway and internet connectivity for commissioning.

- For more information, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

up to 5400 lumens

	Foundation	Advanced	Enterprise
Interact Pro scalable system			
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16
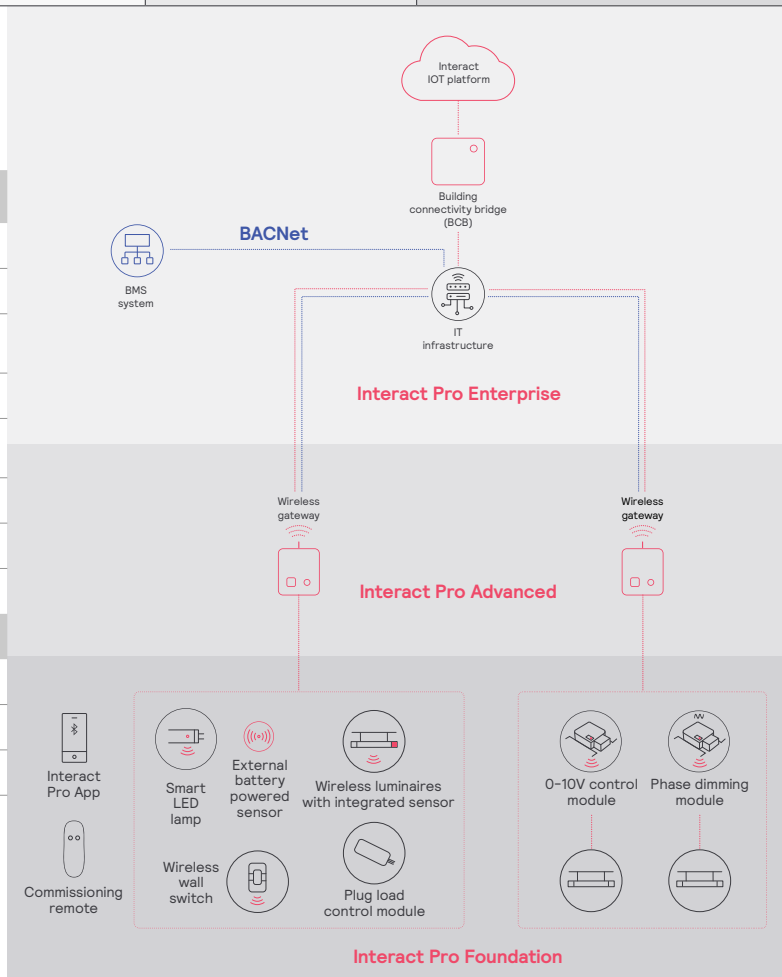
1FGX FluxGrid gen 2 recessed 1x4

up to 5400 lumens

Air return option
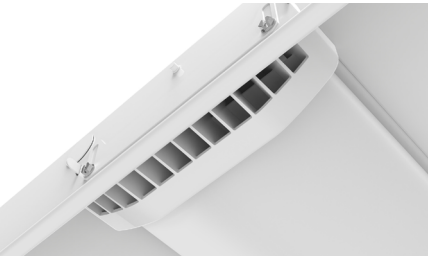
Allows air to flow through vents in the architectural forms located at both ends of the lens. Air blades are provided on each end of the luminaire to control air flow to the plenum.

Return air data
All luminaire sizes
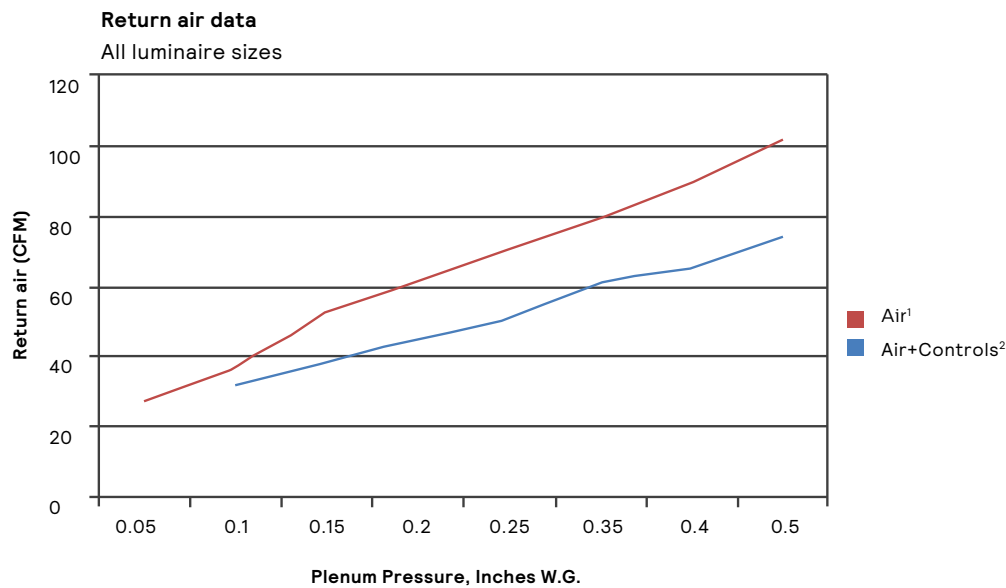
Air[1]

Air+Controls[2]

Return air – noise criteria
All luminaire sizes

		CFM							
Mode		27	37	53	62	71	80	90	102
Air[1]	NC (dB)	<15	24	25	29	33	35	38	40

		CFM							
Mode		31	38	45	51	61	65	74
Air+Controls[2]	NC (dB)	<15	19	21	25	28	30	34

1. Air-only option includes air return forms and pattern control blades on both ends of luminaire.
2. Air+Controls includes the air return form and pattern control blade on one end of the luminaire.
   Control form on the other with matching width.

1FGX   FluxGrid gen 2 recessed 1x4

up to 5400 lumens

Photometry

1FGXG42B840-4-RS-UNV

Luminaire Lumens	4186
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	30.0
Spacing Criterion (0-180)	1.25
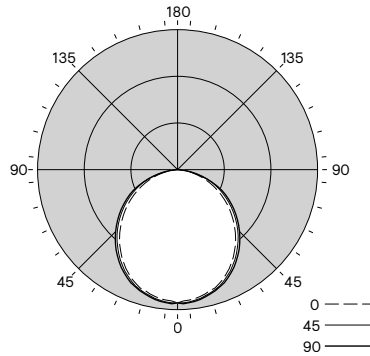
Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1523	1523	1523	1523	1523	
5	1497	1510	1518	1524	1526	144
15	1431	1446	1456	1462	1467	411
25	1315	1329	1341	1356	1363	618
35	1134	1153	1173	1190	1199	732
45	920	940	972	993	1001	746
55	693	717	749	774	785	666
65	459	488	523	551	556	511
75	234	267	291	283	278	290
85	47	62	55	49	48	68
90	2	2	2	2	2	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1173	28.0%	28.0%
0-40	1905	45.5%	45.5%
0-60	3316	79.2%	79.2%
0-90	4186	100.0%	100.0%
0-180	4186	100.0%	100.0%

Avg. Luminance (cd/m²)			
	0	90	180
0	4645	4645	4645
5	4582	4647	4671
15	4517	4598	4632
25	4426	4513	4587
35	4223	4366	4466
45	3966	4191	4318
55	3684	3985	4172
65	3310	3776	4013
75	2758	3426	3274
85	1641	1938	1663

Coefficients of Utilization	%									
Pc---	80				70			50			0
Pw---	70	50	30	10	70	50	30	50	30	10	0
RCR											
0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	100	96	106	102	98	98	94	91	84
2	99	91	84	78	96	89	83	85	80	75	70
3	90	80	72	65	88	78	71	75	69	63	59
4	83	71	62	55	80	69	61	67	60	54	50
5	76	63	54	48	74	62	54	60	52	47	44
6	70	57	48	42	68	56	47	54	47	41	38
7	65	52	43	37	63	51	42	49	42	36	34
8	61	47	39	33	59	46	38	45	38	32	30
9	57	43	35	29	55	43	35	41	34	29	27
10	53	40	32	27	52	39	32	38	31	27	25

1FGXG30L840-4-RS-UNV

Luminaire Lumens	3042
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	21.2
Spacing Criterion (0-180)	1.24
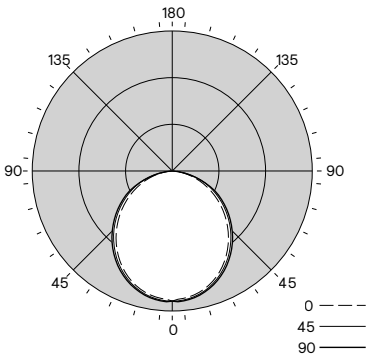
Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1115	1115	1115	1115	1115	
5	1096	1106	1110	1115	1118	105
15	1049	1059	1065	1071	1074	300
25	956	966	976	985	990	449
35	825	836	853	865	871	532
45	669	684	706	721	727	542
55	503	521	545	562	569	484
65	334	355	380	400	403	371
75	171	194	211	204	200	211
85	34	44	40	35	33	49
90	1	1	1	1	1	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	854	28.1%	28.1%
0-40	1386	45.6%	45.6%
0-60	2411	79.3%	79.3%
0-90	3042	100.0%	100.0%
0-180	3042	100.0%	100.0%

| Avg. Luminance (cd/m²)			
	0	90	180
0	3402	3402	3402
5	3356	3399	3422
15	3313	3362	3392
25	3219	3283	3330
35	3071	3174	3244
45	2887	3045	3135
55	2674	2895	3023
65	2408	2745	2909
75	2011	2482	2352
85	1199	1381	1153

Coefficients of Utilization	%									
Pc---	80				70			50			0
Pw---	70	50	30	10	70	50	30	50	30	10	0
RCR											
0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	100	96	106	102	98	98	94	91	84
2	99	91	84	78	96	89	83	85	80	76	70
3	90	80	72	65	88	78	71	75	69	63	59
4	83	71	62	55	80	69	61	67	60	54	50
5	76	63	54	48	74	62	54	60	52	47	44
6	70	57	48	42	68	56	48	54	47	41	38
7	65	52	43	37	63	51	43	49	42	36	34
8	61	47	39	33	59	46	38	45	38	32	30
9	57	43	35	30	55	43	35	42	34	29	27
10	53	40	32	27	52	39	32	38	31	27	25

1FGX FluxGrid gen 2 recessed 1x4

up to 5400 lumens

1FGXG38L840-4-RS-UNV

Luminaire Lumens	3841
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	27.4
Spacing Criterion (0-180)	1.25
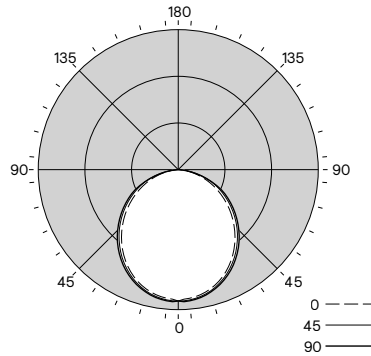
Candela Distribution / Flux

	0	22.5	45	67.5	90	Lumens
0	1408	1408	1408	1408	1408	
5	1384	1396	1401	1407	1411	133
15	1324	1336	1344	1351	1356	379
25	1207	1219	1231	1243	1250	567
35	1041	1055	1076	1092	1100	671
45	845	863	891	910	918	684
55	634	658	687	710	718	611
65	422	448	480	505	509	468
75	214	245	266	258	253	266
85	44	56	51	45	42	63
90	2	2	2	2	2	

Zonal Lumen Summary

Zone	Lumens	%Fixture	%Lamp
0-30	1078	28.1%	28.1%
0-40	1750	45.6%	45.6%
0-60	3044	79.3%	79.3%
0-90	3841	100.0%	100.0%
0-180	3841	100.0%	100.0%

Avg. Luminance (cd/m²)

	0	90	180
0	4293	4293	4293
5	4236	4290	4319
15	4181	4244	4280
25	4060	4143	4205
35	3877	4005	4096
45	3644	3842	3960
55	3372	3655	3817
65	3043	3464	3674
75	2525	3135	2976
85	1521	1768	1482

Coefficients of Utilization   %

Pc---	80				70			50			0
Pw---	70	50	30	10	70	50	30	50	30	10	0
RCR											
0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	100	96	106	102	98	98	94	91	84
2	99	91	84	78	96	89	83	85	80	75	70
3	90	80	72	65	88	78	71	75	69	63	59
4	83	71	62	55	80	69	61	67	60	54	50
5	76	63	54	48	74	62	54	60	52	47	44
6	70	57	48	42	68	56	48	54	47	41	38
7	65	52	43	37	63	51	42	49	42	36	34
8	61	47	39	33	59	46	38	45	38	32	30
9	57	43	35	30	55	43	35	42	34	29	27
10	53	40	32	27	52	39	32	38	31	27	25

1FGXG45L840-4-RS-UNV

Luminaire Lumens	4610
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	33.7
Spacing Criterion (0-180)	1.24
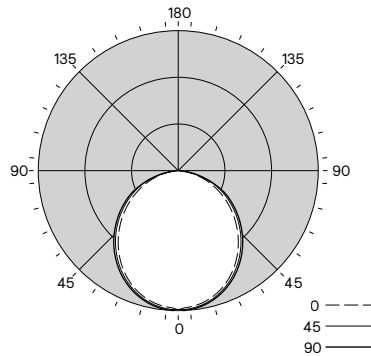
Candela Distribution / Flux

	0	22.5	45	67.5	90	Lumens
0	1690	1690	1690	1690	1690	
5	1661	1676	1682	1689	1694	160
15	1590	1604	1614	1622	1628	455
25	1449	1463	1479	1492	1500	680
35	1250	1267	1292	1311	1320	806
45	1014	1036	1070	1093	1101	821
55	763	788	825	853	861	733
65	507	537	577	607	611	562
75	258	294	320	310	303	319
85	52	67	61	53	50	75
90	2	2	2	2	2	

Zonal Lumen Summary

Zone	Lumens	%Fixture	%Lamp
0-30	1295	28.1%	28.1%
0-40	2101	45.6%	45.6%
0-60	3654	79.3%	79.3%
0-90	4610	100.0%	100.0%
0-180	4610	100.0%	100.0%

Avg. Luminance (cd/m²)

	0	90	180
0	5154	5154	5154
5	5085	5150	5185
15	5019	5095	5139
25	4876	4976	5046
35	4655	4812	4914
45	4374	4615	4750
55	4055	4388	4578
65	3656	4164	4407
75	3036	3766	3566
85	1834	2124	1752

Coefficients of Utilization   %

Pc---	80				70			50			0
Pw---	70	50	30	10	70	50	30	50	30	10	0
RCR											
0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	100	96	106	102	98	98	94	91	84
2	99	91	84	78	96	89	83	85	80	76	70
3	90	80	72	65	88	78	71	75	69	63	59
4	83	71	62	55	80	69	61	67	60	54	50
5	76	63	54	48	74	62	54	60	52	47	44
6	70	57	48	42	68	56	48	54	47	41	38
7	65	52	43	37	63	51	43	49	42	36	34
8	61	47	39	33	59	46	38	45	38	32	30
9	57	43	35	30	55	43	35	42	34	29	27
10	53	40	32	27	52	39	32	38	31	27	25

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