Day-Brite/CFI ClearAppeal LED recessed is a fully luminous aperture luminaire providing modern appeal to architectural spaces. Featuring a regressed aesthetic with balanced glare gradient, ClearAppeal delivers high performing even illumination and high visual comfort. Its architectural style, coupled with controls options, makes ClearAppeal an ideal choice for applications such as office, institutional, and healthcare, where energy savings and customized effect are desired.

| Project: |
| Location: |
| Cat.No: |
| Type: |
| Qty: |
| Notes: |

Now available with AccuRender technology for the highest color quality at the highest efficacy.

Base configurations are indicated in blue. Standard configurations are available with all choices, unless otherwise noted.

Ordering guide (standard & wireless controls)

example: 2CAXG38L840-4-DS-UNV-DIM-SWZCS

Series	Ceiling Type	Lumens (nominal delivered)	Efficacy	Color (CRI/CCT)	Length	Center Diffuser	Voltage	Driver	Options
2CAX	**G**			–	**4** –	–	–	–	
2CAX 2' ClearAppeal gen 2	G Grid	**Base configs** **42B** 4200 **Standard configs** **38L** 3800 **43L** 4300 **48L** 4800 **54L** 5400 **74L** 7400 Other options may be ordered in increments of 100lm from 3800 to 7400lm	Blank Standard H⁵ High	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K **AccuRender**⁸,⁹ **930** 90 CRI, 3000K **935** 90 CRI, 3500K **940** 90 CRI, 4000K	**4** 4'	**DS** Diffuse (smooth)	**UNV** Universal Voltage, 120–277V **347** 347V	**DIM¹** Dimming **SDIM** Step dimming to 40% input power **LDEH** Lutron LDE1, 1% dimming **DALI** DALI dimming	**F1** 3/8" flex, 18ga. 6'; 3 leads include hot, neutral, ground **F2** 3/8" flex, 18ga. 6'; 4 leads include 2 hots, neutral, ground **F1/D** 3/8" twin flex, 18ga. 6' (for dimmable); **Flex 1:** 3 leads include hot, neutral, ground **Flex 2:** 2 leads, Dim+ / Dim- **F2/5W** 3/8" single flex, 18ga. 6' (for dimmable); 5 leads include hot, neutral, ground, Dim+ / Dim- **F2/6W** 3/8" single flex, 18ga. 6' (for dim & EM); 6 leads include 2 hot, neutral, ground, Dim+ / Dim- **GLR** Fusing, fast blow **DSC** Quick driver disconnect **CHIC³** Chicago Plenum rated **BSL6LST⁴** Bodine 6W selftesting battery pack **BSL10LST⁴** Bodine 10W selftesting battery pack **ER100**⁴,⁶,⁷ UL924 listed sensor bypass relay, factory installed between driver & sensor **GTD/E**⁴,⁶ UL924 listed Bodine GTD factory installed on driver input **GTD/SNSR**⁴,⁶,⁷ UL924 listed Bodine GTD factory installed between driver & sensor **SWZCS**²,¹⁰ Interact wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time **RADIO²** Interact RF sensor for wireless connectivity only, no sensing **IAOSB**²,¹⁰ Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities **AG** Antimicrobial Finish **WL** Wet location listed

Ordering guide – PoE controls

example: 2CAXG38L840-4-DS-LV-POE-IAO

Family	Ceiling Type	Lumens (nom. delivered)	Efficacy	Color	Length	Center Diffuser	Voltage	Driver	Driver
2CAX	**G**				**4** –	–	**LV** –	**POE** –	
2STX 2' ClearAppeal gen 2	G Grid	**Std. configs** **38L** 3800 **43L** 4300 **48L** 4800	Blank Standard	**830** 80 CRI, 3000K **835** 80 CRI, 3500K **840** 80 CRI, 4000K **850** 80 CRI, 5000K	**4** 4'	**DS** Diffuse (smooth)	**LV** Low voltage	**POE** Power over Ethernet	**EMPOE** 600lm integral emergency driver and battery pack **IAO** Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control **IAOSB** Interact Office advanced wired sensor bundle, integral SC2000 w/IoT capabilities for enterprise scale projects

Footnotes

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. High efficacy option may only be ordered with Standard lumen configurations.
6. Must be installed in conjunction with a UL1008 device.
7. Must be ordered with an integral sensing option.
8. AccuRender is 90CRI with R₉>50.
9. Option is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory. (DLC Standard efficacy only)
10. Must order IRT9015 Interact commissioning remote with each system order.

Accessories (order separately)

- **FSF424** – 2'x4' surface mount field installation kit (field assembled)
- **FMA24** – 2'x4' "F" mounting frame for NEMA "F" ceiling
- **CAXGDS24L** – 2'x4' SofTrace Gen2 replacement lens
- **CAXGDS24LC** – 2'x4' SofTrace Gen2 with controls replacement lens

SWZCS accessories (order separately)

- **IRT9015** – handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

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

DLC LISTED PREMIUM • DLC LISTED • Bluetooth • ETL Intertek • interact ready.

2CAX ClearAppeal recessed 2x4

up to 7400 lumens

Application

- Ideal for modern offices, institutional, retail, and healthcare applications.
- Modern architectural styling to complementary space.
- Full width luminous lens provides smooth brightness and high visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Available in standard efficacy and high efficacy (H) configurations up to 130lm/W.
- 80 CRI minimum source provides a balanced spectral power distribution.
- AccuRender 90 CRI source provides preferred color quality.
- Suitable for use with NEMA G (15/16") and NFG (9/16") suspended t-grid ceilings. NEMA F flange ceilings require the FMA24 accessory (ordered separately).

Environment

- Rated for dry or damp locations in operating ambient temperatures 0-30°C (32-86°F). 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. Not suitable for natatorium environments.

Construction/Finish

- Robust and durable die-formed embossed steel housing and end caps.
- Molded one-piece acrylic diffuser may be removed without tools for access to LED boards and driver(s).
- Unique spring retainers ensure the diffuser is centered in the housing opening at all times.
- T-bar grid clips are built into luminaire end caps for quick and easy installation, no extra parts.
- Air return functionality is standard for all configurations. See air flow and noise data on page 5.
- Suitable for end to end continuous row mounting. 1" gap between luminaires requires chase nipple to accommodate through wiring (by others).
- Sheet metal components are multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance basked white enamel.
- Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Validation

- cETLus listed for use in damp locations
- When ordered with –WL option code, suitable for use in wet locations with covered ceilings
- Rated for direct contact with insulation (IC)
- CCEA Chicago Plenum listed
- SofTrace luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers, www.designlights.org/QPL

Electrical

- Driver and LED board are accessible from below by easy removal of lens.
- Non-controls Base configurations 0-10V dimmable to 10%.
- Non-controls Standard configurations 0-10V dimmable to 1%.
- Standard configurations with controls options dimmable via wireless switches (see below).
- Predicted L70 lumen maintenance up to 85,000 hours at 25ºC ambient for all configurations.
- Emergency battery packs accessible from above. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10.
- 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.
- Compliance to CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Warranty

- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.

Energy data

Configuration	Nominal CCT/CRI	Flux (lm)	Input Power (W)	Efficacy (LPW)	DLC
2CAXG42B835	3500K/80	4229	34	124	Standard
2CAXG42B840	4000K/80	4314	34	129	Premium
2CAXG38L835	3500K/80	3865	32	120	Standard
2CAXG38L840	4000K/80	3873	32	120	Standard
2CAXG38LH835	3500K/80	3806	30	129	Premium
2CAXG38LH840	4000K/80	3990	30	133	Premium
2CAXG43L835	3500K/80	4302	36	120	Standard
2CAXG43L840	4000K/80	4332	36	119	Standard
2CAXG43LH835	3500K/80	4301	33	129	Premium
2CAXG43LH840	4000K/80	4484	34	134	Premium
2CAXG48L835	3500K/80	4854	41	118	Standard
2CAXG48L840	4000K/80	4844	41	117	Standard
2CAXG48LH835	3500K/80	4789	37	129	Premium
2CAXG48LH840	4000K/80	4985	37	134	Premium
2CAXG54L835	3500K/80	5568	48	116	Standard
2CAXG54L840	4000K/80	5551	48	115	Standard
2CAXG54LH835	3500K/80	5468	42	129	Premium
2CAXG54LH840	4000K/80	5691	43	134	Premium
2CAXG74L835	3500K/80	7509	70	108	Standard
2CAXG74L840	4000K/80	7470	70	106	Standard
2CAXG74LH835	3500K/80	7442	58	127	Premium
2CAXG74LH840	4000K/80	7719	59	131	Premium

2CAX   ClearAppeal recessed 2x4

up to 7400 lumens

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact 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 on-site to identify and group devices together.

  Compatible with:
  - SWS200 & UID8465 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
  - LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
  - LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or 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 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, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 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).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

SofTrace shown with integral sensor

Sensor bundle (IAOSB or SB)

- 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 with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSORIA 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.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: interact-lighting.com/interactproscalablesystem

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.

Interact supported sensor option codes across Genlyte Solutions product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	–	SWZCSH	–	–

Wired Controls Options

Interact Office Wired (PoE)

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- 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.
- 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, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

Energy Data (PoE)

Configuration	Nominal CCT/CRI	Flux (lm)	DC Power (W)*	Efficacy (LPW)
2STXG38L840	4000K/80	3895	30	129
2STXG43L840	4000K/80	4356	34	127
2STXG48L840	4000K/80	4891	39	124

*DC power supply

2CAX   ClearAppeal recessed 2x4

up to 7400 lumens

interact

	Standalone	Gateway Connected	
		Option 1	Option 2
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	✓	✓	✓
Correlated color temperature (CCT) tuning by switch **New**	✓	✓	✓
Support for sensor-based Tunable White luminaires **New**	✓	✓	✓
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
· Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
· Sensors	30
· Switches	50

Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16
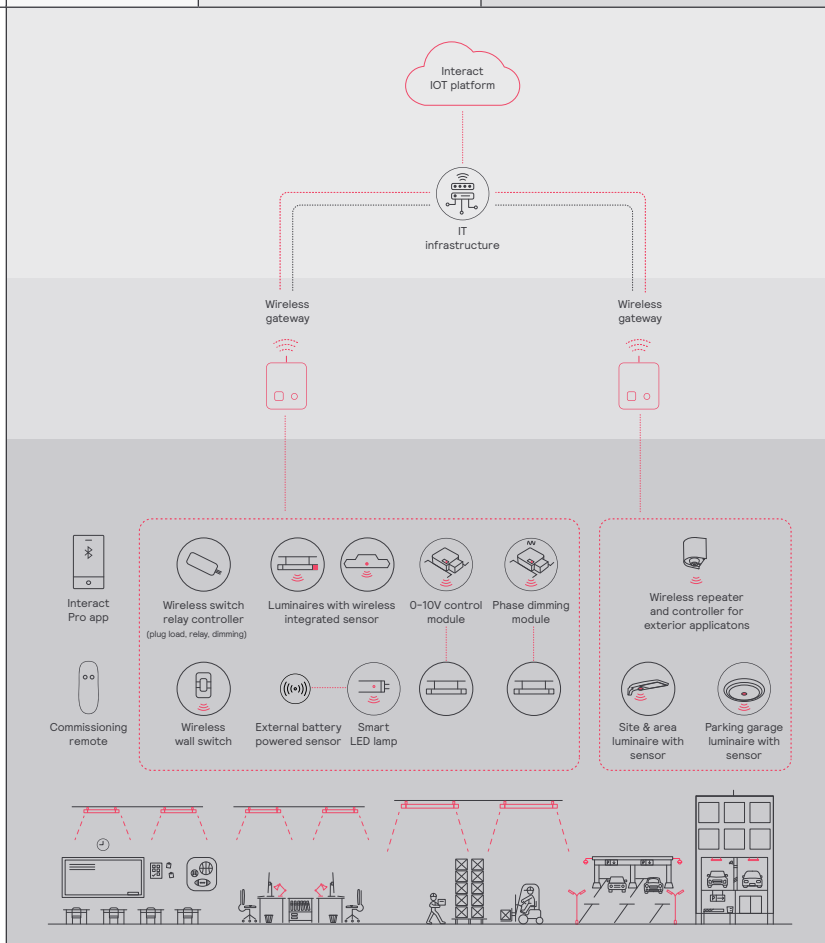
2CAX ClearAppeal recessed 2x4
up to 7400 lumens

Dimensions

23-3/4"
(603mm)

3-15/16"
(99mm)

47-3/4"
(1213mm)

3-13/16"
(97mm)

3-13/16"
(97mm)

Integral grid clips
upper and lower tabs

Ceiling grid
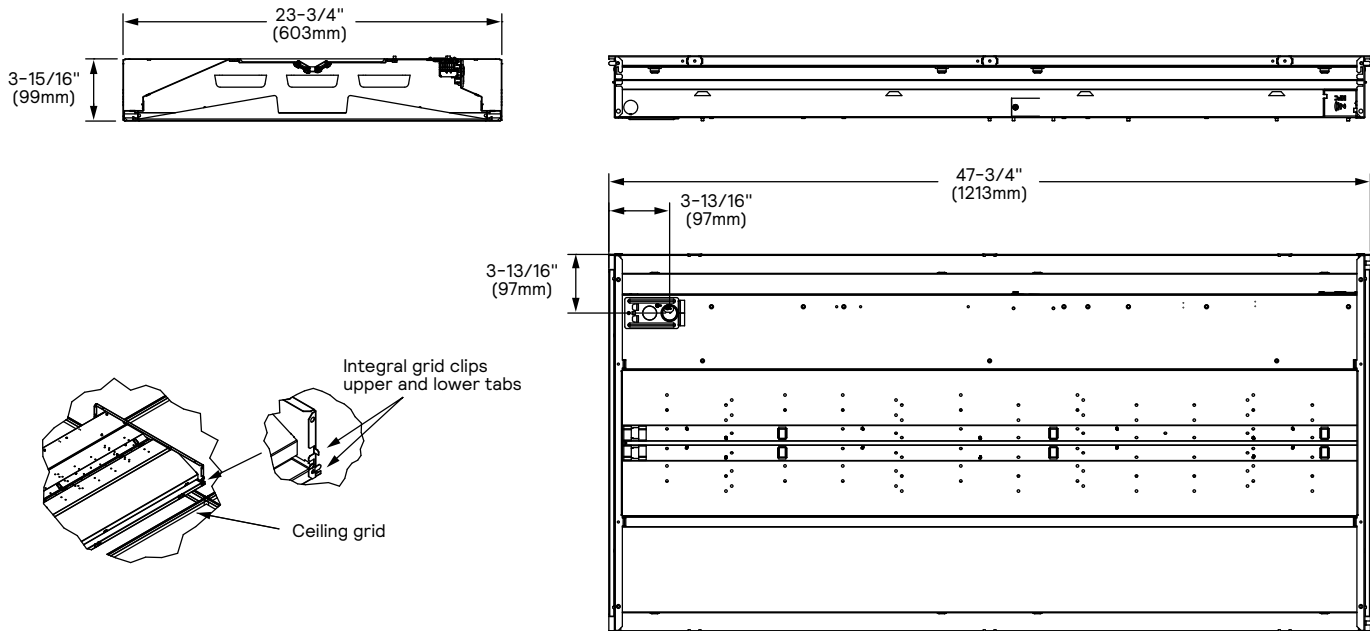
Air return

Integral louvers on housing ends allow air from the heated space to return to a pressurized plenum.

Return Air Data

Return Air (CFM) vs. Plenum Pressure, Inches W.G. — 2x4
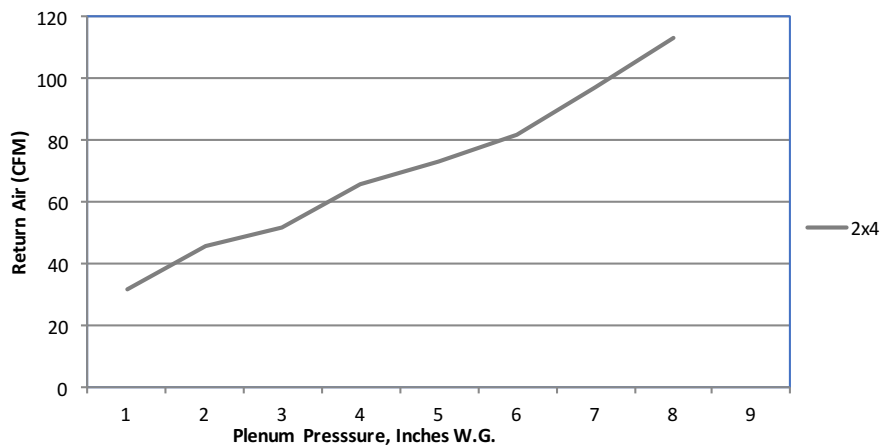
	2x4 Return Air – noise criteria							
CFM	27	37	53	62	71	80	90	102
NC (dB)	<15	24	25	29	33	35	38	40

up to 7400 lumens

Photometry

2x4 ClearAppeal recessed LED, base configuration, 4300 nominal delivered lumens

LER – 129

Catalog No. 2CAXG42B840-4-DS-UNV-DIM
Test No. 40709
S/MH 1.2
Lamp Type LED
Lumens 4314
Input Watts 34

Comparative yearly lighting energy cost per 1000 lumens – **$1.86** 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

Angle	End	45	Cross	Back 45
0	1521	1521	1521	1521
5	1494	1515	1526	1515
15	1430	1455	1470	1455
25	1310	1340	1355	1340
35	1143	1182	1195	1182
45	946	989	1007	989
55	725	776	799	776
65	493	555	588	555
75	239	320	352	320
85	56	88	82	88

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1169	27.1
0-40	1905	44.1
0-60	3352	77.7
0-90	4315	100
0-180	4316	100

Average Luminance

Zone	End	45°	Cross
45	2076	2171	2210
55	1963	2101	2164
65	1810	2038	2161
75	1436	1920	2111
85	996	1562	1461

Coefficients of Utilization

Effective Floor Cavity Reflectance 20 Per (pfc=0.20)

pfc =	20							
Ceil	80	70	50					
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	104	98	106	101	96	96	93
2	97	90	82	95	88	81	84	79
3	90	79	70	86	77	69	73	68
4	81	69	60	80	68	59	66	58
5	75	61	53	72	60	53	58	52
6	69	56	46	68	55	46	53	46
7	65	51	41	63	50	41	48	40
8	59	46	38	57	46	38	44	36
9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30

2x4 ClearAppeal recessed LED, standard configuration, 4300 nominal delivered lumens

LER – 119

Catalog No. 2CAXG43L840-4-DS-UNV-DIM
Test No. 40646
S/MH 1.3
Lamp Type LED
Lumens 4333
Input Watts 36

Comparative yearly lighting energy cost per 1000 lumens – **$2.02** 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

Angle	End	45	Cross	Back 45
0	1527	1527	1527	1527
5	1500	1521	1531	1521
15	1438	1463	1477	1463
25	1320	1350	1366	1350
35	1153	1191	1208	1191
45	955	997	1019	997
55	733	782	808	782
65	464	523	575	523
75	241	323	354	323
85	57	87	82	87

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1177	27.2
0-40	1919	44.3
0-60	3380	78
0-90	4334	100
0-180	4335	100

Average Luminance

Zone	End	45°	Cross
45	2098	2190	2237
55	1984	2116	2186
65	1704	1920	2111
75	1448	1935	2123
85	1023	1557	1456

Coefficients of Utilization

Effective Floor Cavity Reflectance 20 Per (pfc=0.20)

pfc =	20							
Ceil	80	70	50					
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	104	98	106	101	96	96	93
2	97	90	82	95	88	81	84	79
3	90	79	70	86	77	69	73	68
4	81	69	60	80	68	59	66	58
5	75	61	53	72	60	53	58	52
6	69	56	46	68	55	46	53	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	44	36
9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30

2x4 ClearAppeal recessed LED, high efficacy configuration, 4300 nominal delivered lumens

LER – 139

Catalog No. 2CAXG43LH840-4-D-UNV-DIM
Test No. 40653
S/MH 1.2
Lamp Type LED
Lumens 4373
Input Watts 32

Comparative yearly lighting energy cost per 1000 lumens – **$1.73** 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

Angle	End	45	Cross	Back 45
0	1555	1555	1555	1555
5	1528	1549	1559	1549
15	1465	1489	1502	1489
25	1344	1372	1388	1372
35	1175	1210	1227	1210
45	973	1013	1034	1013
55	747	794	820	794
65	472	541	597	541
75	245	325	363	325
85	56	89	84	89

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1197	27.2
0-40	1952	44.3
0-60	3435	78
0-90	4402	100
0-180	4402	100

Average Luminance

Zone	End	45°	Cross
45	2137	2224	2270
55	2021	2149	2220
65	1733	1986	2193
75	1470	1949	2177
85	998	1582	1496

Coefficients of Utilization

Effective Floor Cavity Reflectance 20 Per (pfc=0.20)

pfc =	20							
Ceil	80	70	50					
Wall	70	50	30	70	50	30	50	30
RCR								
0	118	118	118	115	115	115	111	111
1	108	104	98	106	101	96	96	93
2	98	90	82	95	88	81	84	79
3	90	79	70	86	77	69	73	68
4	81	69	60	80	68	59	66	58
5	75	61	53	72	60	53	58	52
6	69	56	46	68	55	46	53	46
7	65	51	41	63	50	41	48	40
8	59	46	38	58	46	38	44	36
9	56	42	34	55	41	34	40	34
10	53	39	30	51	39	30	38	30

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