

Surface

ClearAppeal LED 2x4

3600, 4200, 5500, or 7000 lumens



Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:
Notes:	

Day-Brite / CFI ClearAppeal surface LED provides excellent visual comfort. Its modern architectural styling complements any space.

Ordering guide

Example: 2SCA42L840-4-DS-UNV-DIM

Width	Family	Lumens	Color	Length	Center Diffuser	Voltage	Driver	Options
2	SCA		-	4 –	DS –	_	-	
2 2'	SCA ClearAppeal surface	 36L 3600 nominal delivered lumens 42L 4200 nominal delivered lumens 55L 5500 nominal delivered lumens 70L 7000 nominal delivered lumens 	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	4 4'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 347 347V	DIM ¹ 0-10V dimming SDIM ² Step dimming to 40% input power	AG Antimicrobial paint GLR Fusing, fast blow SWZDT ³ Integral sensor, daylighting and occupancy, advanced grouping with dwell time DAYOCC ³ Integral sensor, daylighting and occupancy, basic grouping basic grouping basic grouping DSC

Footnotes

1 Integral SWZDT and DAYOCC options dimmable to 5% via wireless wall switch,

all other 0-10V wired configurations dimmable to 1%.

2 SDIM not available for 70L lumen option.

3 Specify only with -DIM driver option.







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Application

- Modern architectural styling to complement any space.
- Smooth brightness across the face of the luminaire prevents glare and provides excellent visual comfort.
- Directs a controlled amount of light to higher angles to eliminate "cave effect" without creating glare.
- Ideal for modern offices, schools and retail environments.
- Excellent luminaire efficacy provides significant energy savings.
- High CRI source provides excellent color rendering.
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.

Construction/Finish

Dimensions

- Extruded aluminum external construction provides accurate, high quality fit and finish.
- Captive hinged door frame assembly for maintenance accessibility.
- Matte white external finish is standard, custom colors available.

Electrical

- Driver and LED boards are easily accessible from below. LED boards are individually replaceable if required.
- 0-10V dimming is standard.
- Five year limited luminaire warranty includes LED boards and driver. Visit www.philips. com/warranties for complete warranty information.
- High efficiency LEDs have a minimum 70,000 hour rated life (L70). Predicted L70 lifetime based on LED manufacturer's LM-80 data and in-situ laboratory testing.
- cETLus listed to UL standards, suitable for damp locations.
- ClearAppeal luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL).

Enclosure

27-3/4" (705mm)

- Captive one-piece enclosure hinges down as an assembly for easy access to internals if needed.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Single piece thermo formed acrylic lens with smooth center diffuser (DS).

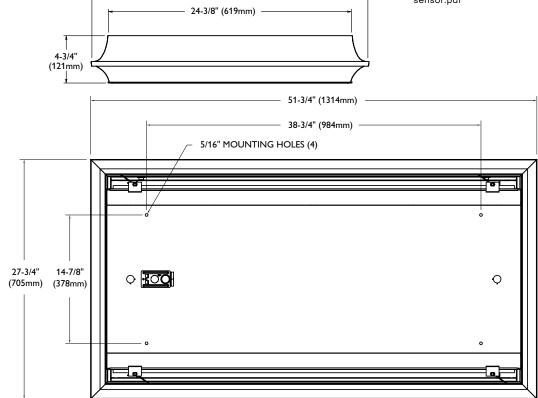
General Notes

- 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.

DAYOCC & SpaceWise DT (SWZDT)

- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible wireless wall switch only (see below)
- Register for the commissioning app at http:// registration.componentcloud.philips.com/ appregistration/
- Integral sensing options (DAYOCC, SWZG2, SWZDT) may not be combined
- For more information including recommended switches, refer to the following –
- DAYOCC www.lightingproducts.philips.com/ documents/webdb2/DayBrite/pdf/DAYOCC_ sensor.pdf

SWZDT - www.lightingproducts.philips.com/ documents/webdb2/DayBrite/pdf/SWZDT_ sensor.pdf



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Photometry

2x4 ClearAppeal surface LED, 3600 nominal delivered lumens

.		Cande	la disti	ibutior	า		Light Distribution					Average Luminance					
Catalog No.	2SCA36L840-4-DS-UNV	Vertical		Horizont	tal Angle		Degrees	Lumens	% Lumina	ire		Angle	End	45°	Cross		
Test No.	35365	Angle	0°	45°	90°	-45°	0-30	981	27.0			45	1709	1821	1883		
S/MH	1.3	0	1263	1263	1263	1263	0-40 0-60	1599 2808	44.1 77.4			55 65	1596 1446	1751 1690	1841 1828		
Lamp Type	LED	5	1249	1258	1266	1258	0-90	3627	100.0			75	1200	1716	1912		
Lumens	3626	15 25	1198 1095	1219 1126	1231 1146	1219 1126						85	754	1350	1247		
Input Watts	30.7	35	950	994	1015	994	Coeffici										
		45	778	829	857	829	EFFECTIVE	FLOOR	AVITY REF	LECTAN	CE 20 P	ER (pfc=0	0.20)				
Comparative yearly	lighting energy cost per 1000	55	590	647	680	647	Ceiling (po	cc)	80%		ANCE 20 PER (pfc=0.20) 70% 50% 70 50 30 50 30			0%			
	sed on 3000 hrs. and \$.08 pwr	65	394	460	498	460	Wall (pw)	70	50	30	70	50	30	50	30		
KWH.		75	200	286	319	286	RCR		Zonal cav	ity metho	od - Effe	ctive floor	r reflecta	nce = 209	%		
		85	42	76	70	76		0 118	118 103	118 98	115 106	115 101	115 96	111 96	111 93		
	sults were obtained in the						atio	2 97	90	82	95	88	81	83	79		
	y which is NVLAP accredited						< R Z	3 90	79	69	86	77	68	73	68		
Technology.	itute of Standards and						Cavity Ratio	4 81 5 75	69 61	60 53	80 72	68 60	59 53	66 58	58 51		
iccimoto8).							Ú E	6 69	56	46	68	55	46	53	46		
	based on test performed in						Room	7 64 8 59	51 46	41 38	63 57	50 46	41 36	47 44	40 36		
compliance with LM	1-79.							9 56	42	34	55	41	34	40	34		
							1	0 53	39	30	51	39	30	38	30		

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2x4 ClearAppeal surface LED, 4200 nominal delivered lumens

		Cande	a dist	ributio	า		Light Distribution Average						ge Lu	e Luminance			
•	Vertical Horizo								% Lumina	ire		Angle	End	45°	Cro		
lumens – \$2.05 bar KWH. The photometric re Day-Brite laborator by the National Inst Technology.	36364	Angle	0°	45°	90°	-45°	0-30 0-40	1154 1882	27.0 44.1			45	2013	2143	22		
/MH	1.3	0	1487	1487	1487	1487	0-40	3306	77.4			55 65	1880 1705	2059 1987	21 21		
amp Type	LED	5	1471	1481	1490	1481	0-90	4272	100.0			75	1419	2017	22		
imens	4270	15	1410	1434	1449	1434						85	900	1637	14		
		25 35	1288 1119	1325 1169	1348 1194	1325 1169	Coefficie	nts of	Utilizat	tion							
iput watts	36.4	45	917	976	1009	976	EFFECTIVE				ICE 20 F	PER (pfc=0	0.20)				
	du lighting operations 1000	55	694	761	801	761	Ceiling (pcc	:)	80%		1	70%		5	0%		
mparative yearly lighting energy cost per 1000 rens – \$2.05 based on 3000 hrs. and \$.08 pv	65	464	541	587	541	Wall (pw)	70	50	30	70	50	30	50	3			
-	ased on 5000 ms. and 5.00 pwr	75	237	336	376	336	RCR		Zonal cavi	ty meth	od - Effe	ctive floo	r reflecta	nce = 20'	%		
nens – \$2.05 based on 3000 hrs. and \$.08 pv	85	51	92	82	92	0		118	, 118	115	115	115	111	11			
e photometric	results were obtained in the						.e 1	1 108	103	98	106	101	96	96	9		
	ory which is NVLAP accredited						Cavity Ratio	2 97 90	90 79	82 69	95 86	88 77	81 68	83 73	7		
	stitute of Standards and						≥ 4	81	69	60	80	68	59	66	5		
chnology.							a s	5 75	61	53	72	60	53	58	5		
								69 7 64	56 51	46 41	68 63	55 50	46 41	53 47	4 4		
	es based on test performed in						Room	59	46	38	57	50 46	36	47	4		
mpliance with I	LM-79.						<u> </u>		42	34	55	41	34	40	3		
							10	53	39	30	51	39	30	38	3		

2SCA ClearAppeal surface LED 2x4

3600, 4200, 5500, or 7000 lumens

2x4 ClearAppeal surface LED, 5500 nominal delivered lumens

LER – 116

		Cande	la dist	ributio	n		Light Dis	tribut	ion			Avera	ge Lu	minar	nce
Catalog No.	Vertical Horizontal Angle Angle 0 45' 90' -45' /MH 1.3 0 1934 1934 1933 1933 amp Type LED 5 1914 1927 1938 1922 umens 5556 25 1677 1724 1753 172 uput Watts 47.6 35 1456 1521 1554 152 55 905 989 1043 985 1043 985							umens	% Lumina	aire		Angle	End	45°	Cross
Test No.	35363	Angle	0°	45°	90°	-45°	0-30	1502	27.0			45	2619	2787	2884
S/MH	1.3	0	1934	1934	1934	1934	0-40 0-60	2449 4302	44.1 77.4			55 65	2449 2219	2677 2587	2824 2812
Lamp Type	LED					1927	0-90	5558	100.0			75	1842	2625	2937
Lumens	5556					1724						85	1167	2111	1931
Input Watts	47.6					1521	Coefficie								
						1269 989	EFFECTIVE F	1.1	.AVITY REI 80%	LECIAN	ICE 20 P	'ER (pic=0 70%	J.20)	50	0%
lumens – \$2.05 ba KWH. The photometric re Day-Brite laborato by the National Ins Technology.	y lighting energy cost per 1000 seed on 3000 hrs. and \$.08 pwr esults were obtained in the ry which is NVLAP accredited stitute of Standards and s based on test performed in M-70	65 75 85	604 307 66	704 438 119	766 490 108	704 438 119	Wall (pw) RCR 0 1 2 3 4 5 5 6 8 0 0 7 7 7 7 9 9 9	108 97 90 81 75 69 64	50 Zonal cav 118 103 90 79 69 61 56 51 46 42	30 ity metho 98 82 69 60 53 46 41 38 34	70 od - Effe 115 106 95 86 80 72 68 63 57 55	50 ctive floor 115 101 88 77 68 60 55 50 46 41	30 reflecta 115 96 81 68 59 53 46 41 36 34	50 nce = 209 111 96 83 73 66 58 53 47 44 40	30 % 111 93 79 68 58 51 46 40 36 34

2x4 ClearAppeal surface LED, 7000 nominal delivered lumens

LER - 114

		Cande	la dist	ributior	า		Light Distribution Average						ge Lu	e Luminance			
Catalog No. Fest No.	2SCA70L840-4-DS-UNV 35362	Vertical Angle	0°	Horizon 45°	tal Angle 90°	-45°	Degrees 0-30	1895	% Lumina 27.0			Angle 45	End 3301	45° 3521	Cro 363		
5/MH .amp Type	1.3 LED	0 5 15	2441 2415 2315	2441 2431 2355	2441 2446 2379	2441 2431 2355	0-40 0-60 0-90	3090 5428 7014	44.1 77.4 100.0			55 65 75 85	3084 2800 2321 1463	3382 3267 3310 2630	356 355 372 240		
umens 1put Watts	7011 61.3	25 35 45	2118 1836 1503	2177 1922 1603	2214 1961 1657	2177 1922 1603	Coeffici		f Utiliza AVITY REF		ICE 20 P	ER (pfc=(0.20)				
	ly lighting energy cost per 1000 sed on 3000 hrs. and \$.08 pwr	55 65 75 85	1139 762 387 82	1249 889 552 148	1316 967 620 135	1249 889 552 148	Ceiling (p Wall (pw) RCR		80% 50 Zonal cav 118	30 ity metho 118	70 od - Effe 115	70% 50 ctive floor 115	30 reflecta 115	50	0% 30 % 111		
Day-Brite laborate by the National In Technology.	esults were obtained in the ory which is NVLAP accredited stitute of Standards and es based on test performed in .M-79.						Room Cavity Ratio	1 108 2 97 3 90 4 81 5 75 6 69 7 64 8 59 9 56		98 82 69 60 53 46 41 38 34	106 95 86 80 72 68 63 57 55	101 88 77 68 60 55 50 46 41	96 81 68 59 53 46 41 36 34	96 83 73 66 58 53 47 44 40	93 79 68 58 51 46 40 36 34		

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