LSC2 Select

Selectable CCT & Output LED Linear Strip

Project

Catalog

Type

Date

Product Description

The new LSC2 Select LED Linear Strip adds on to our tried-and-true linear strip with selectable CCT and light output options. This versatile fixture is easy to surface mount on both ceilings and walls and can accommodate continuous runs. The LSC2 features a semi-circular, milky-white lens that offers a more polished aesthetic while eliminating hotspots, and is an economical, energy-efficient lighting alternative to single lamp fluorescent strips and some wraparound fixtures. For added flexibility and energy savings, the LSC2 is available with an optional microwave occupancy sensor, preinstalled emergency battery backup, or a combination both. The LSC2 delivers optimal performance and long life in a slim design that's ideal for general ambient lighting in retail, warehouse, residential utility, and light commercial or industrial applications.



Construction
- Durable 20 gauge steel construction
- Smooth formed sides for safe handling
- Similar form factor to single lamp fluorescent strip
- Lens/Array module for easier installation and ingress protection

Optical System
- Semi-circular, diffuser eliminates hotspots and pixelation
- Push button lens retention method securely holds diffuser in ceiling or wall mount
- CCT selectable at 3000K, 4000K, 5000K, 5700, or 6500K
- 80 CRI for good color definition in public places

Electrical
- Input voltage of 120-277VAC
- Dim-to-off dimming via 0-10VDC controls
- Sensor-Ready feature with 12V accessory output behind lens.
- Through wiring capable for continuous runs
- CCT and Wattage selector switches accessible on junction box
- Emergency backup available
- Power factor > 0.9
- THD < 10%
- Luminaire surge protection level: designed to withstand up to 2.5kV ring wave per ANSI C82.77-5-2017 requirements for Indoor Hard-wired and Indoor Portable Luminaires
- Operating temperature rating of -4°F to 122°F (-20°C to 50°C)

Controls
- Microwave Motion Sensor option available
- NICOR NLC compatible Microwave Motion Sensor option available
- 12V output from driver to power NICOR sensor
- Sensors install behind lens for seamless appearance

Mounting and installation
- Easy surface mount installation on ceilings or walls
- Quick release buttons for light chamber removal
- Safety-strap retained light chamber allows single person installation
- Multiple knockouts provided for wiring from back, sides or ends
- Features provided for surface, cable, or hook and chain mounting
- Cover plates provided for 4/O box surface installation
- For installations where power surge may be possible, NICOR recommends installing additional surge protection at the fixture or electrical distribution panel

Listings
- cULus 1598 Listed for damp locations
- DLC 5.1 Standard listed for direct ambient linear on all models
- DLC 5.1 Premium listed for stairway applications on all models
- DLC 5.1 Premium listed for Low Bay applications on 4' model
- DLC 5.1 Premium listed for High Bay applications on 8' model
- RoHS Compliant
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- TM-21 Reported L70(9k) life >50,000 hours
- LM-79, LM-80 testing performed in accordance with IESNA standards

Warranty
- 5-year limited system warranty standard
- Warranty does not cover product failure due to an overvoltage event (power surge)



LSCSv2

LED Linear Strip

2', 4', 8'

Selectable Wattage & CCT

CERTIFIED · DLC LISTED · DLC LISTED PREMIUM · DAMP LOCATION RATED · 5 YEAR WARRANTY

NICOR®

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Ordering

Ordering Information								*Example: LSC2440SUS8*
Series	**Version**	**Size**	**Wattage**	**Voltage**	**CCT**	**CRI**	**Motion Sensor**	**Emergency**
LSC	**2**	☐ **2** (2 Foot)	**25S** [1]	**U** (120-277V)	**S** (30/40/50/57/65K)	**8** (80+)	☐ (Blank)	☐ (Blank)
		☐ **4** (4 Foot)	**40S** [2]				☐ **M** (Microwave)[6]	☐ **E1** (4W-MTO)[1]
		☐ **8** (8 Foot)	**80S** [4]				☐ **N** (NLC Microwave)[5]	☐ **E2** (8W-MTO)[3]
								☐ **E3** (18W-MTO)[4]
								☐ **E8** (8W-QS)[2]

1. Only available on 2 foot model
2. Only available on 4 foot model
3. Only available on 4 foot and 8 foot models
4. Only available on 8 foot model
5. Not available on E8 option
6. Available in QS and MTO configurations with different sensors. See table below
Specifications and dimensions subject to change without notice.

Microwave Sensor Default Settings		
	MTO (*Made to order*)	QS (*Quick Ship*)
Detection Area	100%	100%
Sensitivity	100%	100%
Hold Time	5 Minutes	10 Minutes
Daylight	Disabled	Disabled
Standby Dim	50%	50%
Standby Time	30 Minutes	1 Minute
Photocell	Off	Off

Accessories

Accessories sold separately

Continuous Run Bracket	☐ LSC2CRBRACKET1WH
Snap-in Microwave Motion Sensor Kit	☐ SENSORKITMW1WH
Remote Control for Snap In Sensor	☐ SNAPINMWREMOTE
NLC Microwave Motion Sensor Kit	☐ SENSORMWBT1KIT
Aircraft Cable Mounting Kit	☐ HB-LG-120-18Y-PAD

Recommended Dimmers*

Lutron NTSTV-DV-WH
Lutron DVSTV
Cooper SF10P
Legrand RH4FBL3PW

**Not a complete list. Check compatibility before installation.*

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Performance Data

		Performance Data				Emergency Pack Performance Data			
Model	Output Setting	Nominal CCT	Lumens	Max Watts	Efficiency	E1 Lumens	E2 Lumens	E3 Lumens	E3 Lumens
LSC2225S	Standard	3000	1917	15.2	126.5	569	-	-	-
		4000	2100	14.5	144.4	650	-	-	-
		5000	2088	14.6	142.7	642	-	-	-
		5700	2066	14.8	139.5	628	-	-	-
		6500	1852	14.7	125.6	565	-	-	-
	Medium	3000	2551	20.2	126.3	568	-	-	-
		4000	2795	19.4	144.1	648	-	-	-
		5000	2779	19.5	142.4	641	-	-	-
		5700	2750	19.8	139.2	626	-	-	-
		6500	2700	19.7	137.4	618	-	-	-
	High	3000	3199	25.3	126.7	570	-	-	-
		4000	3505	24.5	143.1	644	-	-	-
		5000	3485	24.6	141.4	636	-	-	-
		5700	3448	24.9	138.3	622	-	-	-
		6500	3386	24.8	136.5	614	-	-	-
LSC2440S	Standard	3000	2562	20.3	126.3	-	1011	2274	2274
		4000	2761	19.4	142.1	-	1137	2558	2558
		5000	2788	19.3	144.7	-	1158	2605	2605
		5700	2754	19.4	141.9	-	1135	2554	2554
		6500	2558	20.1	127.6	-	1021	2296	2296
	Medium	3000	3836	30.4	126.1	-	1009	2271	2271
		4000	4135	29.1	141.9	-	1135	2554	2554
		5000	4175	28.9	144.5	-	1156	2601	2601
		5700	4124	29.1	141.7	-	1133	2550	2550
		6500	4129	30.1	137.3	-	1098	2471	2471
	High	3000	5131	40.6	126.5	-	1012	2278	2278
		4000	5530	39.4	140.4	-	1123	2527	2527
		5000	5584	39.1	143.0	-	1144	2574	2574
		5700	5516	39.4	140.2	-	1121	2523	2523
		6500	5523	40.7	135.8	-	1087	2445	2445
LSC2880S	Standard	3000	7753	60.6	128.0	-	1024	2303	-
		4000	8314	58.2	142.8	-	1142	2571	-
		5000	8411	57.7	145.7	-	1166	2623	-
		5700	8345	58.3	143.2	-	1145	2577	-
		6500	7713	59.7	129.1	-	1033	2324	-
	Medium	3000	9031	70.7	127.8	-	1022	2300	-
		4000	9684	67.9	142.6	-	1141	2566	-
		5000	9797	67.3	145.5	-	1164	2619	-
		5700	9721	68.0	142.9	-	1144	2573	-
		6500	9634	69.7	138.2	-	1106	2488	-
	High	3000	10353	80.8	128.2	-	1025	2307	-
		4000	11102	78.4	141.6	-	1133	2550	-
		5000	11231	77.7	144.5	-	1156	2602	-
		5700	11144	78.5	142.0	-	1136	2556	-
		6500	11044	80.4	137.3	-	1099	2472	-

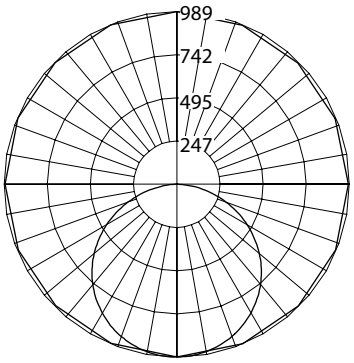
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Photometric Data

LSC2225S 40K 25W

Input Voltage (VAC)	120-277
System Level Power (W)	24.5
Delivered Lumens (Lm)	3505
System Efficacy (Lm/W)	143.1
Correlated Color Temp (K)	4235
Color Rendering Index (CRI)	86
Beam Angle (0)	132.3
Beam Angle (90)	100.2
Spacing Criteria (0)	1.18
Spacing Criteria (90)	1.36



Cone of Light Tabulation

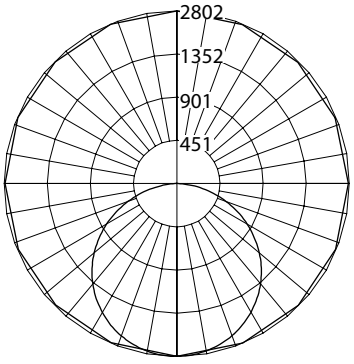
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	14.5	36.2
10	8.9	45.2
12	5.8	54.3
14	4.0	63.3

Data Multiplier

	LSC2225S				
	35K	40K	50K	57K	65K
Low	0.547	0.599	0.596	0.589	0.579
Med	0.728	0.798	0.793	0.785	0.770
High	0.913	1.000	0.994	0.984	0.966

LSC2440S 40K 40W

Input Voltage (VAC)	120-277
System Level Power (W)	39.4
Delivered Lumens (Lm)	5530
System Efficacy (Lm/W)	140.4
Correlated Color Temp (K)	3844
Color Rendering Index (CRI)	86
Beam Angle (0)	118.0
Beam Angle (90)	101.3
Spacing Criteria (0)	1.18
Spacing Criteria (90)	1.22



Cone of Light Tabulation

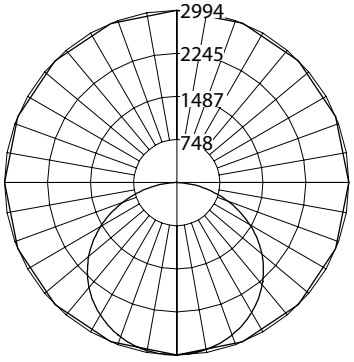
Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	27.6	26.6
10	17.0	33.3
12	11.3	39.9
14	7.9	46.6

Data Multiplier

	LSC2440S				
	35K	40K	50K	57K	65K
Low	0.463	0.499	0.504	0.498	0.499
Med	0.694	0.748	0.755	0.746	0.747
High	0.928	1.000	1.010	0.997	0.999

LSC2880S 40K 80W

Input Voltage (VAC)	120-277
System Level Power (W)	78.38
Delivered Lumens (Lm)	11102
System Efficacy (Lm/W)	141.6
Correlated Color Temp (K)	4227
Color Rendering Index (CRI)	86
Beam Angle (0)	138.8
Beam Angle (90)	104.9
Spacing Criteria (0)	1.22
Spacing Criteria (90)	1.34



Cone of Light Tabulation

Mounted height (Feet)	Footcandles Beam Center	Diameter (Feet)
8	45.8	42.6
10	28.5	53.2
12	19.0	63.9
14	13.3	74.5

Data Multiplier

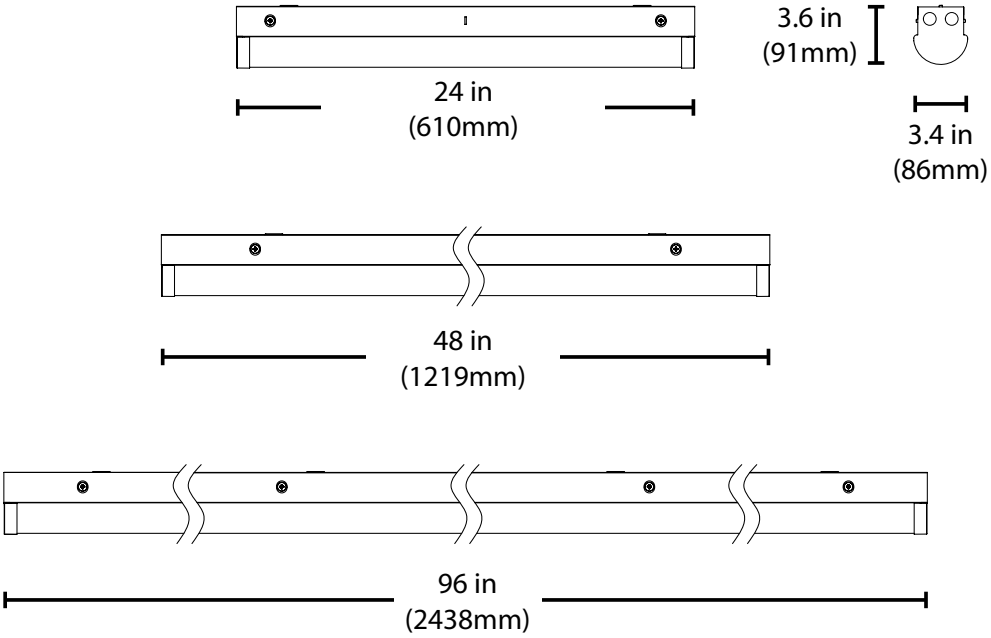
	LSC2880S				
	35K	40K	50K	57K	65K
Low	0.698	0.749	0.758	0.752	0.745
Med	0.813	0.872	0.882	0.876	0.868
High	0.933	1.000	1.012	1.004	0.995

Fixture tested per LM-79-08. Photometric data is of the performance of a representative fixture. Results may vary in the field.

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Dimensions



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.