

Cooper Lighting

by **FAT•N**



The new WNLED general purpose wraparound luminaire offers traditional styling with the latest in market-leading LED technology. Offered in a number of lumen packages with standard 0-10V controls compatibility, the WNLED Series offers customers the ideal balance of fixture performance and energy efficiency. The WNLED Series offers an excellent service life and is suitable for a wide range of commercial and industrial applications.

Product Performance

- 4' and 2' product configurations
- Three 4' lumen packages
- Frost prismatic lens standard
- 3000K, 3500K, 4000K and 5000K color temperatures
- High efficacy up to 90 lm/W
- Typical 85+ CRI
- Class 2, 24V DC constant driver with standard 0-10V dimming
- Step-dim and Fifth Light[™] (DALI) options available
- Ideal for surface and suspended applications
- L70 at 60,000 hours
- Five-year warranty

Compliances

- LED modules comply with IESNA LM-79 and LM-80 standards
- cULus listed 1598 for damp locations
- · RoHS compliant







Product Controls

All WNLED models come with standard drivers, which work with wall dimmers and sensors, and can also scale up to digital drivers that work with Fifth Light whole-building systems. WNLED luminaires with integrated Eaton's Cooper Lighting Controls business solutions will improve energy savings and user comfort for any space.

• 0 - 10V Dimming Standard

WNLED includes 0-10V (analog) dimming for direct control using Eaton's Cooper Wiring Devices business wall dimmers, as well as Eaton's Cooper Controls business Greengate room controllers, sensors, and lighting control panels.

• 120/277V Occupancy and Daylight Sensors

WNLED saves money and energy when paired with Eaton's Cooper Controls business occupancy and/or daylight sensors, including dimming daylight sensors using the 0-10V dimming interface.

Fifth Light Digital Addressable Lighting Interface (DALI) Control Systems

WNLED are available with native Fifth Light DALI drivers for complete digital energy management using capable and scalable Fifth Light controllers and software. For details on the Fifth Light solution, please visit www.coopercontrol.com



Ordering Information

Sample Number: 4WNLED-LD1-41-F-UNV-L840-CD1-U

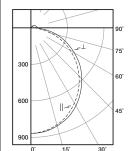
Length	Series	S ⁶	Lamp Type		LED Lumens Output		Lens		Voltage	Options	
2 =2 ft. 4 =4 ft.	WNLE	D =Commercial Wraparound	LD1 =LED 1.0		27=2700 Lumens ¹ 41=4100 Lumens 54=5400 Lumens 70=7000 Lumens ²		F=Frost Acrylic (Standard)		347 =347V ³ 480 =480V ³ UNV =Universal Voltage 120-277	Emergency EL=Emergency Installed ⁴	
CCT		Oriver Type		Num	ber of Drivers	Packaging A		Ac	Accessories (Order Separately)		
CCT L835=3500k L840=4000k	K s	CD=0-10V Dimming SD=Step-dim (Bi Le SLTD=Fifth Light (D	evel) ⁵	1 =1 [2 =2 [nit Pack	SCF=Fixed Stem Set (Specify Length) SCS=Swivel Stem Set (Specify Length) SCA=Adjustable 48" Stem Set A1B/Spacer-U=Spacer 1-1/2" to 2-1/2" from ceiling (Use 2 per fixture)			

NOTES: 1. 2 ft. model. 2. Two drivers required. 3. 4 ft. model only. 4. Specify 120 or 277V. EL option is only available for 120-277V applications. 5. Step-dim only available for 4100 lumen unit. 6. DesignLights™ Consortium Qualified (all lumen packages except 2700 lumen). Refer to www.designlights.org Qualified Products List under Family Models for details.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

Photometrics

2WNLED-LD1-27-F-UNV-L835-CD1-U



Electronic Driver 3500K LEDs Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Test: 2WNLED-LD1-27-F-UNV-L835-CD1-U.IES

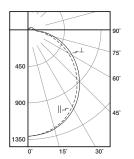
Coefficients of Utilization

			cavity		100		20%		
	80	%			50%			30%	
70	50	30	10	50	30	10	50	30	10
118	118	118	118	108	108	108	103	103	103
107	102	97	93	94	90	87	89	86	84
97	88	81	75	81	76	71	77	73	69
88	77	69	62	71	65	59	68	62	58
80	68	59	52	63	56	50	60	54	49
74	61	52	45	57	49	43	54	48	42
68	55	45	39	51	43	38	49	42	37
63	49	41	34	46	39	33	44	38	22
59	45	36	31	42	35	30	41	34	29
55	41	33	27	39	32	27	38	31	26
51	38	30	25	36	29	24	35	28	24
	118 107 97 88 80 74 68 63 59	70 50 118 118 107 102 97 88 88 77 80 68 74 61 68 55 63 49 59 45 55 41	118 118 118 107 102 97 97 88 81 88 77 69 80 68 59 74 61 52 68 55 45 63 49 41 59 45 36	70 50 30 10 118 118 118 118 107 102 97 93 97 88 81 75 88 77 69 62 80 68 59 52 74 61 52 45 68 55 45 39 63 49 41 34 59 45 36 31 55 41 33 27	70 50 30 10 50 118 118 118 118 108 107 102 97 93 94 97 88 81 75 81 88 77 69 62 71 80 68 59 52 63 74 61 52 45 57 68 55 45 39 51 63 49 41 34 46 59 45 36 31 42 55 41 33 27 39	70 50 30 10 50 30 118 118 118 118 108 108 107 102 97 93 94 90 97 88 81 75 81 76 88 77 69 62 71 65 80 68 59 52 63 56 74 61 52 45 57 49 68 55 45 39 51 43 63 49 41 34 46 39 59 45 36 31 42 35 55 41 33 27 39 32	70 50 30 10 50 30 10 118 118 118 118 108 108 108 107 102 97 93 94 90 87 97 88 81 75 81 76 71 85 59 80 68 59 52 63 56 50 74 61 52 45 57 49 43 68 55 45 39 51 43 38 63 49 41 34 46 39 33 59 45 36 31 42 25 30 55 41 33 27 39 32 27	70 50 30 10 50 30 10 50 118 118 118 118 108 108 103 107 102 97 93 94 90 87 89 97 88 81 75 81 76 71 77 88 77 69 62 71 65 59 68 80 68 59 52 63 56 50 60 74 61 52 45 57 49 43 54 68 55 45 39 51 43 38 49 63 49 41 34 46 39 33 44 69 45 36 31 42 25 30 41 59 45 36 31 42 25 30 41 55 41 33 27 <td>70 50 30 10 50 30 10 50 30 1118 118 118 118 108 108 103 103 103 107 102 97 93 94 90 87 89 86 97 88 81 75 81 76 71 77 73 88 76 99 62 71 65 59 68 62 80 68 59 52 63 56 50 60 54 44 74 61 52 45 57 49 43 54 48 68 55 45 39 51 43 38 49 42 63 49 41 34 36 54 48 36 54 48 36 54 43 36 49 42 30 30 41 34 42 25 <</td>	70 50 30 10 50 30 10 50 30 1118 118 118 118 108 108 103 103 103 107 102 97 93 94 90 87 89 86 97 88 81 75 81 76 71 77 73 88 76 99 62 71 65 59 68 62 80 68 59 52 63 56 50 60 54 44 74 61 52 45 57 49 43 54 48 68 55 45 39 51 43 38 49 42 63 49 41 34 36 54 48 36 54 48 36 54 43 36 49 42 30 30 41 34 42 25 <

Zonal Lumen Summary
Zone Lumens

Zone	Lumens	%Fixture
0-30	670	24.7
0-40	1096	40.4
0-60	1948	71.8
0-90	2581	95.0
0-180	2715	100.0

4WNLED-LD1-41-F-UNV-L835-CD1-U



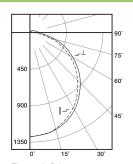
Electronic Driver 3500K LEDs Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Test: 4WNLED-LD1-41-F-UNV-L835-CD1-U-IES

Coefficients of Utilization

	Effe	ctive	floor	cavit	y refl	ecta	nce		20	%		
rc		80	%				50%				30%	
rw	70	50	30	10		50	30	10		50	30	10
RCR												
0	118	118	118	118		109	109	109		103	103	103
1	107	102	97	93		94	90	87		89	86	84
2	97	88	81	75		81	76	71		77	73	69
3	88	77	69	62		71	65	59		68	62	58
4	80	68	59	52		63	56	50		60	54	49
5	74	61	52	45		57	49	43		54	48	42
6	68	55	45	39		51	44	38		49	42	37
7	63	49	41	34		46	39	33		45	38	33
8	59	45	36	31		42	35	30		41	34	29
9	55	41	33	27		39	32	27		38	31	26
10	51	38	30	25		36	29	24		35	28	24

Zonal Lumen Summary										
Zone	Lumens	%Fixture								
0-30	1013	24.7								
0-40	1659	40.4								
0-60	2954	72.0								
0-90	3912	95.4								
0-180	4102	100.0								

4WNLED-LD1-54-F-UNV-L835-CD1-U



Electronic Driver 3500K LEDs Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Test: 4WNLED-LD1-54-F-UNV-L835-CD1-UJES

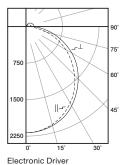
Coefficients of Utilization

	Effe	ctive	floor	cavity	reflecta	nce		20%			
rc		80	%			50%	,			30%	
rw	70	50	30	10	50	30	10	5	50	30	10
RCR											
0	118	118	118	118	109	109	109	1	03	103	103
1	107	102	97	93	94	90	87	- 1	89	86	84
2	97	88	81	75	81	76	71		77	73	69
3	88	77	69	62	71	65	59	(68	62	58
4	80	68	59	52	53	56	50	(60	54	49
5	74	61	52	45	57	49	43		54	48	42
6	68	55	45	39	51	44	38		49	42	37
7	63	49	41	34	46	39	33		45	38	33
8	59	45	36	31	42	35	30		41	34	29
9	55	41	33	27	39	32	27	;	38	31	26
10	51	38	30	25	36	29	24	;	35	28	24

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1326	24.7
0-40	2171	40.5
0-60	3865	72.0
0-90	5120	95.4
0-180	5367	100.0

4WNLED-LD1-70-F-UNV-L835-CD2-U



3500K LEDs Spacing criterion: (II) 1.2 x mounting height, (L) 1.3 x mounting height Test: 4WNLED-LD1-70-F-UNV-L835-

Coefficients of Utilization

	Effe	ctive	floor	cavity	reflecta	nce		20%		
rc		80	%			50%	,		30%	
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	118	118	118	118	108	108	108	102	102	102
1	106	101	96	92	93	89	86	88	85	82
2	96	88	80	74	80	75	70	76	72	68
3	87	76	68	61	71	64	58	67	61	57
4	80	68	58	52	62	55	49	59	53	48
5	73	60	51	44	56	48	43	53	47	42
6	68	54	45	38	50	43	37	48	41	36
7	63	49	40	34	46	38	33	44	37	32
8	58	45	36	30	42	34	29	40	33	29
9	54	41	33	27	38	31	26	37	30	26
10	51	38	30	24	36	29	24	34	28	23

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1690	23.9
0-40	2772	39.2
0-60	4956	70.1
0-90	6628	93.8
0-18	0 7066	100.0

Eaton's Cooper Lighting Business

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Our Lighting Product Brands

Halo

Halo Commercial

Portfolio IRiS RSA Metalux Corelite Neo-Ray Fail-Safe MWS

Shaper io

Lumark

Ametrix

McGraw-Edison

Invue Lumière Streetworks AtLite Sure-Lites

Our Controls Product Brands

Greengate iLumin Zero 88

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