

FEATURES

The Architectural NV-LED luminaire adopts the latest in optical and LED technology, resulting in extraordinary lighting uniformity and performance. The distinct design of the luminaire utilizes a micro-prism optical lens and angled backlit lens to create a volumetric, uniform appearance to complement any architectural space. With a high angled distribution, it provides a higher intensity of illumination across the work plane, while delivering a shadow-free, soft glow across the entire surface, blending seamlessly into the ceiling. The high efficiency, sustainability, and exceptional quality of the luminaire makes it the ideal source for corporate offices, educational, healthcare, and retail applications.

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
10000	10298	79 W
9000	8987	69 W
8000	7724	59 W
6000	6264	49 W
5000	5746	40 W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

LUMENS	5000, 6000, 8000, 9000, 10000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUT2W, DIMST, ELDO10.1, ELDODMX.1, DALI.1
EMERGENCY	10W - Up to 1000L output 20W - Up to 2000L output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) EMG-LED-G2-20W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



MAINTENANCE

The center acrylic diffuser and lamp shields can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 347V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.

LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED driver (120V forward phase only).

LUTH - Lutron LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.

ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.

DALI - DALI DT6, DT8 dimming down to 1%.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%.


Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.


DIMST - Step Dimming


WARRANTY

Five-year warranty for parts and components. (Labor not included)

LED DYNAMIC PLATFORM OPTIONS

 Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)

 Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)

 RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.

Example: **24-NV-LED-4000L-DIM10-MVOLT-30K-85**

24	NV	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X4'	NV - LED Volumetric Troffer	LED	4000L - 4000 lumens 5000L - 5000 lumens 6000L - 6000 lumens 8000L - 8000 lumens 10000L - 10000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume LUT2W - Lutron 2Wire ELDO10.1 - EldoLED 0-10V DALI.1 - EldoLED DALI ELDODMX.1 - EldoLED DMX	MVOLT 347* 120 277	30K 35K 40K 50K	85	0-EMG-LED-10W 0-EMG-LED-20W 0-EMG-LED-G2-10W-SDT 0-EMG-LED-G2-20W-SDT	24FK - 2'x4' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance FS-PPV2 - Fixture Sensor Power Pack FD-301 - Low Voltage Daylight Dimming Photosensor LMFC-011 - Digital Lighting Manager FS-205 - Low Voltage Pir Fixture Integrated Occupancy Sensor

*Consult factory for details

*Consult factory for details

LUT2W are available in 120V only LUT2W up to 4000L

LUTH, ELDO10.1, ELDODALI.1, and ELDODMX.1 are available in 120V and 277V

Reference last page for Control Options

*FD-301 & FS-205 require FS-PPV2- Power Pack

24-NV-LED-9000L-DIM10-MVOLT-40K-85

TEST NO.: **EL101890**

INPUT WATTS: **69.9**

LUMENS: **8987**

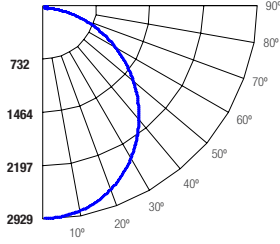
CRI: **85**

EFFICACY: **129**

CCT: **4000K**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1070.38	N.A.	11.90
0-30	2282.38	N.A.	25.40
0-40	3765.36	N.A.	41.90
0-60	6837.71	N.A.	76.10
0-80	8749.58	N.A.	97.40
0-90	8914.81	N.A.	99.20

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	4226	3932	3511
55	4420	3992	3311
65	4383	4141	3039
75	3049	4036	2588
85	877	2273	1910

Lumens Per Zone

Zone	Lumens
0-10	276.45
10-20	793.93
20-30	1212.00
30-40	1482.98
40-50	1579.61
50-60	1492.74
60-70	1213.6
70-80	698.26
80-90	165.24

Candela Tabulation

θ	0	5	15	25	35	45	55	65	75	85	90
0	2921.633										
5	2913.800										
15	2831.090										
25	2686.770										
35	2484.290										
45	2222.950										
55	1885.810										
65	1378.090										
75	587.010										
85	56.860										
90	7.800										

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	87	84	82						
2	2	98	89	82	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68						
3	3	89	78	70	63	86	77	69	62	73	67	61	71	65	60	68	63	59	57						
4	4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48						
5	5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	43	41						
6	6	69	55	46	39	67	54	46	39	52	45	39	50	44	38	49	43	38	36						
7	7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	32						
8	8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28						
9	9	55	42	33	28	54	41	33	28	40	32	27	39	32	27	38	31	27	25						
10	10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

Cone of Light

(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	730	8.3	5.5
4	183	16.5	11
6	81.2	24.8	16.5
8	45.7	33.1	21.9
10	29.2	41.3	27.4
12	20.3	49.6	32.9

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

24-NV-LED-10000L-DIM10-MVOLT-40K-85

TEST NO.: **EL101893**

INPUT WATTS: **79.6**

LUMENS: **10298**

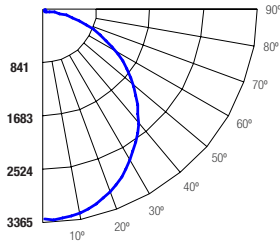
CRI: **85**

EFFICACY: **129**

CCT: **4000K**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1227.63	N.A.	11.90
0-30	2617.28	N.A.	25.40
0-40	4317.43	N.A.	41.90
0-60	7837.88	N.A.	76.10
0-80	10023.8	N.A.	97.30
0-90	10215.1	N.A.	99.20

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	4057	4390	4853
55	3812	4389	5075
65	3515	4465	5059
75	3043	4090	3540
85	2313	1595	1022

Lumens Per Zone

Zone	Lumens
0-10	317.10
10-20	910.53
20-30	1389.65
30-40	1700.15
40-50	1810.59
50-60	1709.86
60-70	1388.25
70-80	797.66
80-90	191.31

Candela Tabulation

θ	0	5	15	25	35	45	55	65	75	85	90
0	3351.897										
5	3351.034										
15	3211.921										
25	2951.395										
35	2579.610										
45	2134.032										
55	1626.586										
65	1105.058										
75	585.832										
85	149.940										
90	21.030										

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99						
1	1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	87	84	82						
2	2	98	90	82	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68						
3	3	89	78	70	63	86	77	69	62	73	67	61	71	65	60	68	63	59	57						
4	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48						
5	5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	43	41						
6	6	69	55	46	39	67	54	46	39	52	45	39	50	44	38	49	43	38	36						
7	7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	32						
8	8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28						
9	9	55	42	33	28	54	41	33	28	40	32	27	39	32	27	38	31	27	25						
10	10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23						

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

Cone of Light

(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	838	5.5	8.3
4	209	10.9	16.5
6	93.1	16.4	24.8
8	52.4	21.9	33
10	33.5	27.4	41.3
12	23.3	32.8	49.5

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

- 1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems
- 2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
- 3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	EASYFIT by EnOcean	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS EasySense	legrand®
CONTROL UNIT	<input type="checkbox"/> LEDRU LED Relay Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-0-10 Lutron Vive 0-10V Individual Control Models ¹⁴	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷	<input type="checkbox"/> XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
	<input type="checkbox"/> LEDDU LED Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Individual Control Models ¹⁴		<input type="checkbox"/> ZL027 -DLE Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		<input type="checkbox"/> FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ¹⁹
INTEGRAT OCCUPANCY& DAYLIGHT SENSOR	N/A	<input type="checkbox"/> DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit) ²	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensILUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200 SNS200 for grouping ²	<input type="checkbox"/> FD-301 Fixture integrated Daylight Dimming Sensor ²
				<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	<input type="checkbox"/> SNS300 SNS300 for networks ²	<input type="checkbox"/> FS-205 Fixture integrated passive infrared occupancy sensor ²
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> E0SCU-W-E0 Occupancy Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-OCR2B-P-WH Ceiling mount 360° ,occupancy/vacancy sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-E0 Light Level Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit) ³	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System <input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit) ³	<input type="checkbox"/> EN-CLM- PIR-DD-ZB SensILUM™ Wireless Integrated Sensor <input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit) ³	<input type="checkbox"/> SNS200-CMP SNS-200 for Grouping ³	N/A
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 lincn Sensor cable for CU-4 and IoT Ready <input type="checkbox"/> CBL-5E-CU4-7F 7 Foot sensor cable for CU-4 and IoT Ready Driver	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with LUTRON LRF2-OCR2B-PWH Ceiling mount 360deg occupancy/ vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor. Sensors must be orderd through Lutron	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5SH, Sensors	6- Luminaire will be compatible with LEVITON I ntellect APP & Keypad room controller	7- Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless passive infrared occupancy and photo sensor	8- Luminaire will be compatible with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.