

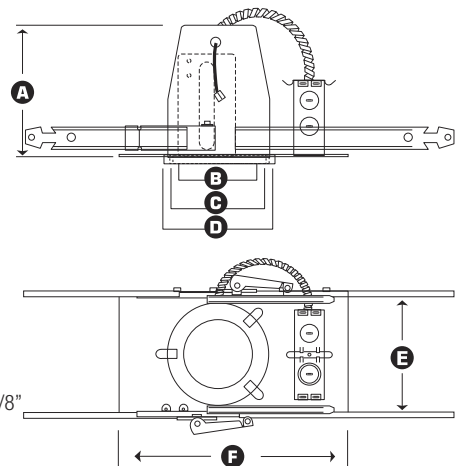
H-LED2-4

4" ARCHITECTURAL NEW CONSTRUCTION LED DOWNLIGHT



900

INPUT VOLT.	INPUT FREQ.	INPUT CUR.	THD	POWER FACTOR	INPUT POWER	LUMENS
120/277	50/60Hz	91mA/40mA	<20%	>0.9	9W(+/-5%)	600
120/277	50/60Hz	91mA/40mA	<20%	>0.9	11W(+/-5%)	900



Height = 5-1/2"
Trim Aperture = 4"
Cut-out = 4-3/8"
Trim Outside Dia. = 4-7/8"
Width = 5-1/2"
Length = 8"

DESCRIPTION - 4" LED dedicated Architectural New Construction Non-IC housing with the driver installed on the junction box. Designed for new construction installations and suitable for use in ceilings where insulation is kept 3 inches from housing. The excellent color rendering index of 85+ and realistic color temperature of 3,000 degrees Kelvin confirms that the MAXILUME LED luminaires are ideally suited for use in hospitality, health care, commercial, retail and residential applications. Producing over 900 usable lumens, the lighting is smooth and comfortable while using nearly 80% less energy than the equivalent 50W BR20/PAR20 or MR16 80% less and 50% less than the common 13W CFL. Plus, the eco-friendly Elite LED system features 70% lumen maintenance at 50,000hrs life.

FEATURES - Greater light output than a 50W BR20/PAR20, MR16 80% & 13W CFL 13W CFL. Available in Spot and Flood distribution ideal for task lighting applications..



DURABILITY - Our die-cast system pulls the heat from the LED chip, allowing continued cool operation for years. Life tests have shown the 11 watt MAXILUME LED output will be maintained at 70% of initial lumens at 50,000hrs of operation.

DRIVER - Our LED driver is rated for 50 to 60 Hz, produces less than 20% THD, has a power factor between 0.90 and 1.00 and is thermally protected for additional safety. MAXILUMEs driver is installed on the junction box cover, it is easily accessible for service from below the ceiling. Additionally, a 277V option is available.

REPEATABLE - Repeatability means quality. From our chip selection process, to our driver, to the thermal management, MAXILUME LED is engineered for quality. Our superior design allows for installation in construction that requires the MAXILUME Air-Shut™ system. All MAXILUME LED luminaires are rated at 90+ CRI and tested to LM-79 and LM-80 standards by a certified laboratory, and meets the California Title-24 compliance standards.

DIMMABLE - The MAXILUME LED system is fully dimmable down to 10% of initial light output with a Triac & Electronic Low Voltage dimmer when ordered with the following options (DIMTR-120). Fixtures can be shipped with an Lutron Hi-lume A series Driver which can be dimmed with Lutron Dimming Systems when ordered with the following options (LUTH-120, LUTH-277). A 277V NON-Dimming option is also available.

HOUSING - Die-formed aluminum & galvanized steel for maximum heat dissipation & rust protection. Housing adjusts vertically in plaster frame to accommodate 1/2" to 1-3/8" thick ceiling. Designed for new construction installations & is suitable for use in ceilings where insulation is kept 3" from housing. May be installed in 2" x 6" joist construction.

MOUNTING BRACKET - Constructed from 16 gauge steel and is supplied with C-channels that are adjustable up to 28". Mounting brackets may be adjusted up to 2-3/4" vertically from inside the housing.

JUNCTION BOX - UL Listed for through-branch circuit wiring, provided with four 1/2" knockouts, one 3/4" knockout and four Romex knockouts with integral strain clamps, all knockouts have true pry-out slots. J-box is designed for straight through conduit runs. Driver is installed on the junction box cover so it may be serviced from below the ceiling.

THERMAL PROTECTION - Standard thermal protection device guards against improper installation and misuse of insulation material.

OUR WORD - The MAXILUME LED lighting system carries a five-year carefree warranty for parts and components. (Labor not included.)

LISTING

c-UL-us - listed for Damp location.

c-UL-us - listed for feed Through Wiring. LM79 / LM80

DIMMING INFORMATION

DIMTR (Triac & Electronic Low Voltage Dimming)

LUTH (Lutron® Hi-lume® Dimming)

Refer to page 147
for Trim options

Example: H-LED2-4-600L-DIMTR-120-AT/LED2-1401-600L-ND-30K-W-WH

TYPE	600L SERIES				EMERGENCY			
H-LED2-4	☐ 600L-DIMTR-120 ☐ 600L-LUTH-120 ☐ 900L-DIMTR-120 ☐ 900L-LUTH-120	☐ 600L-LUTH-277 ☐ 600L-DIM10-MVOLT ☐ 900L-LUTH-277 ☐ 900L-DIM10-MVOLT	☐ EMG-10W					
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1401 (BAFFLE)	☐ 600L ☐ 900L	☐ ND Narrow	☐ 27K ☐ 30K	☐ 85+ ☐ 90+	☐ W-WH ☐ P-WH	☐ SN-SN ☐ P-BK	☐ CP-CP ☐ BZ-BZ	
LED2-1405 (LENSED BAFFLE)	☐ 600L ☐ 900L	☐ MD Medium	☐ 35K ☐ 40K	☐ 85+ ☐ 90+				
LED2-1416 (WALL WASH)	☐ 600L ☐ 900L	☐ MD Medium	☐ 50K (85+ CRI ONLY)					
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1402 (REFLECTOR)	☐ 600L ☐ 900L	☐ ND Narrow	☐ 27K ☐ 30K	☐ 85+ ☐ 90+	☐ CL-WH ☐ W-WH	☐ CL-CH ☐ CP-CP		
LED2-1428 (LENSED REFLECTOR)	☐ 600L ☐ 900L	☐ MD Medium	☐ 35K ☐ 40K	☐ 85+ ☐ 90+	☐ BZ-BZ ☐ RG-WH	☐ SN-SN ☐ CL-SN		
LED2-1407 (WALL WASH)	☐ 600L ☐ 900L	☐ MD Medium	☐ 50K (85+ CRI ONLY)		☐ MB-WH	☐ MB-BK		
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1462	☐ 600L ☐ 900L	☐ MD Medium	☐ 27K ☐ 30K ☐ 50K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ CL-CP ☐ CL-WH	☐ CL-BZ ☐ CL-SN	☐ CL-BK ☐ CL-CH	
LED2-1437 (SHOWER TRIM)			☐ 35K					
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1406 (ADJUSTABLE)	☐ 600L ☐ 900L	☐ WD(Narrow) ☐ MD(Medium) ☐ ND(Wide)	☐ 27K ☐ 30K ☐ 35K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ CP ☐ WH	☐ BZ ☐ SN	☐ BK ☐ CH	
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1414 (PINHOLE)	☐ 600L ☐ 900L	☐ ND Narrow	☐ 27K ☐ 30K ☐ 40K	☐ 35K ☐ 40K ☐ 50K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ WH		
TRIM TYPE	SERIES	CCT	CRI	FINISH				
LED2-1403 (SLOT APERTURE)	☐ 600L ☐ 900L	☐ 27K ☐ 30K ☐ 35K	☐ 35K ☐ 40K ☐ 50K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ WH			
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1496 (SQUARE BAFFLE)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ W-WH ☐ P-WH	☐ P-BK ☐ CP-CP	☐ SN-SN ☐ BZ-BZ	
TRIM TYPE	SERIES	OPTICS	CCT	CRI	FINISH			
LED2-1498 (SQUARE REFLECTOR)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K (85+ CRI ONLY)	☐ 85+ ☐ 90+	☐ W-WH			

BAFFLE WITH NARROW LIGHT DISTRIBUTION

LED2-1401-600L-ND-A-W-WH



Photometric Multiplier 1.0

LED2-1401-600L-ND-A-P-WH



Photometric Multiplier .75

LED2-1401-600L-ND-A-SN-SN



Photometric Multiplier .92

LED2-1401-600L-ND-A-CP-CP



Photometric Multiplier .87

LED2-1401-600L-ND-A-P-BK



Photometric Multiplier .75

LED2-1401-600L-ND-A-BZ-BZ



Photometric Multiplier .85

Example: LED2-1401-600L-ND-30K-W-WH

TYPE (BAFFLE)	SERIES	OPTICS	(A) CCT	CRI	FINISH
LED2-1401	☐ 600L ☐ 900L	☐ ND (Narrow)	☐ 27K ☐ 40K ☐ 30K ☐ 50K (85+ CRI only) ☐ 35K	☐ 85+ ☐ 90+	☐ W-WH ☐ CP-CP ☐ P-WH ☐ BZ-BZ ☐ SN-SN ☐ P-BK

LENSED BAFFLE WITH MEDIUM LIGHT DISTRIBUTION

LED2-1405-600L-MD-A-W-WH



Photometric Multiplier 1.0

LED2-1405-600L-MD-A-P-WH



Photometric Multiplier .75

LED2-1405-600L-MD-A-SN-SN



Photometric Multiplier .92

LED2-1405-600L-MD-A-CP-CP



Photometric Multiplier .87

LED2-1405-600L-MD-A-P-BK



Photometric Multiplier .75

LED2-1405-600L-MD-A-BZ-BZ



Photometric Multiplier .85

Example: LED2-1405-600L-MD-30K-W-WH

TYPE (LENSED BAFFLE)	SERIES	OPTICS	(A) CCT	CRI	FINISH
LED2-1405 	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 40K ☐ 30K ☐ 50K (85+ CRI only) ☐ 35K	☐ 85+ ☐ 90+	☐ W-WH ☐ CP-CP ☐ P-WH ☐ BZ-BZ ☐ SN-SN ☐ P-BK

BAFFLE FINISH:



BZ
BRONZE



CP
COPPER



WH
WHITE



P
BLACK



SN
SATIN NICKEL

TRIM/RING FINISH:



BK
BLACK



WH
WHITE



CH
CHROME



CP
COPPER



BZ
BRONZE



PB
POLISH BRASS



SN
SATIN NICKEL

REFLECTOR WITH NARROW LIGHT DISTRIBUTION

LED2-1402-600L-ND-A-CL-WH

Photometric Multiplier 1.0

LED2-1402-600L-ND-A-BZ-BZ

Photometric Multiplier .87

LED2-1402-600L-ND-A-W-WH

Photometric Multiplier .95

LED2-1402-600L-ND-A-CL-CH

Photometric Multiplier 1.0

LED2-1402-600L-ND-A-CP-CP

Photometric Multiplier .90

LED2-1402-600L-ND-A-SN-SN

Photometric Multiplier .87

LED2-1402-600L-ND-A-CL-SN

Photometric Multiplier 1.0

LED2-1402-600L-ND-A-RG-WH

Photometric Multiplier .90

LED2-1402-600L-ND-A-MB-WH

Photometric Multiplier .77

LED2-1402-600L-ND-A-MB-BK

Photometric Multiplier .77

Example: LED2-1402-600L-ND-30K-W-WH

TYPE (REFLECTOR)	SERIES	OPTICS	(A) CCT	CRI	FINISH
LED2-1402	☐ 600L ☐ 900L	☐ ND (Narrow)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ CP-WH ☐ MB-BK ☐ W-WH ☐ BZ-BZ ☐ RG-WH ☐ MB-WH ☐ CL-CH ☐ CP-CP ☐ CL-SN ☐ SN-SN

LENSED REFLECTOR WITH MEDIUM LIGHT DISTRIBUTION

LED2-1428-600L-MD-(A)-CL-WH



Photometric Multiplier 1.0

LED2-1428-600L-MD-(A)-BZ-BZ



Photometric Multiplier .87

LED2-1428-600L-MD-(A)-W-WH



Photometric Multiplier .95

LED2-1428-600L-MD-(A)-CL-CH



Photometric Multiplier 1.0

LED2-1428-600L-MD-(A)-CP-CP



Photometric Multiplier .90

LED2-1428-600L-MD-(A)-SN-SN



Photometric Multiplier .87

LED2-1428-600L-MD-(A)-CL-SN



Photometric Multiplier 1.0

LED2-1428-600L-MD-(A)-RG-WH



Photometric Multiplier .90

LED2-1428-600L-MD-(A)-MB-WH



Photometric Multiplier .77

LED2-1428-600L-MD-(A)-MB-BK



Photometric Multiplier .77

LED
4"

4 INCH ARCHITECTURAL LED OPTICS

Example: LED2-1428-600L-MD-30K-W-WH

TYPE (LENSED REFLECTOR)	SERIES	OPTICS	(A) CCT	CRI	FINISH
LED2-1428 	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 40K ☐ 30K ☐ 50K (85+ CRI only) ☐ 35K	☐ 85+ ☐ 90+	☐ CP-WH ☐ MB-WH ☐ MB-BK ☐ CL-CH ☐ W-WH ☐ CP-CP ☐ BZ-BZ ☐ CL-SN ☐ RG-WH ☐ SN-SN

PINHOLE WITH NARROW LIGHT DISTRIBUTION

LED2-1414-600L-ND-A-WH

Example: LED2-1414-600L-ND-30K-WH

TYPE	SERIES	OPTICS	(A) CCT	CRI	FINISH
LED2-1414 (PINHOLE)	☐ 600L ☐ 900L	☐ ND (Narrow)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ WH

ONE PIECE SLOT APERTURE

LED2-1403-600L-A-WH

Example: LED2-1403-600L-30K-WH

TYPE	SERIES	(A) CCT	CRI	FINISH
LED2-1403 (ONE PIECE SLOT APERTURE)	☐ 600L ☐ 900L	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ WH

SMOOTH FROST SHOWER LITE WITH MEDIUM LIGHT DISTRIBUTION

FOR
WET
LOCATIONLED2-1437-600L-MD-A - B

Example: LED2-1437-600L-MD-30K-CL-WH

TYPE	SERIES	OPTICS	(A) CCT	CRI	(B) FINISH
LED2-1437 (SMOOTH FROST SHOWER LITE)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ BZ ☐ CH ☐ WH ☐ BK ☐ CP ☐ SN

SEMI-FROSTED SHOWER TRIM WITH MEDIUM LIGHT DISTRIBUTION

FOR
WET
LOCATIONLED2-1462-600L-MD-A - B

Example: LED2-1462-600L-MD-30K-CL-WH

TYPE	SERIES	OPTICS	(A) CCT	CRI	(B) FINISH
LED2-1462 (SEMI-FROSTED SHOWER TRIM)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ CL-BZ ☐ CL-WH ☐ CL-CP ☐ CL-CH ☐ CL-BK ☐ CL-SN

BAFFLE WALL WASH WITH MEDIUM LIGHT DISTRIBUTION

LED2-1416-600L-MD-A - B

Example: LED2-1416-600L-MD-30K-W-W-WH

TYPE	SERIES	OPTICS	(A) CCT	CRI	(B) FINISH
LED2-1416 (BAFFLE WALL WASH)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ W-W-WH ☐ CP-CP-WH ☐ P-W-WH ☐ BZ-BZ-WH ☐ SN-SN-WH ☐ P-BK-WH

REFLECTOR WALL WASH WITH MEDIUM LIGHT DISTRIBUTION

LED2-1407-600L-MD-A - B

Example: LED2-1407-600L-MD-30K-W-W-WH

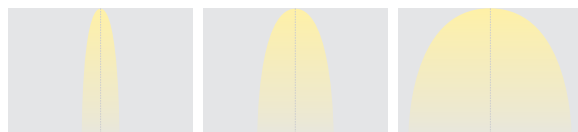
TYPE	SERIES	OPTICS	(A) CCT	CRI	(B) FINISH
LED2-1407 (REFLECTOR WALL WASH)	☐ 600L ☐ 900L	☐ MD (Medium)	☐ 27K ☐ 30K ☐ 35K ☐ 40K ☐ 50K (85+ CRI only)	☐ 85+ ☐ 90+	☐ CP-W-WH ☐ BZ-BZ-WH ☐ MB-BK-WH ☐ W-W-WH ☐ RG-W-WH ☐ MB-W-WH ☐ RG-PB-WH ☐ CL-CH-WH ☐ CP-CP-WH ☐ SN-SN-WH ☐ CL-SN-WH

SURFACE ADJUSTABLE (90° TILT, 359° ROTATION)



Description:

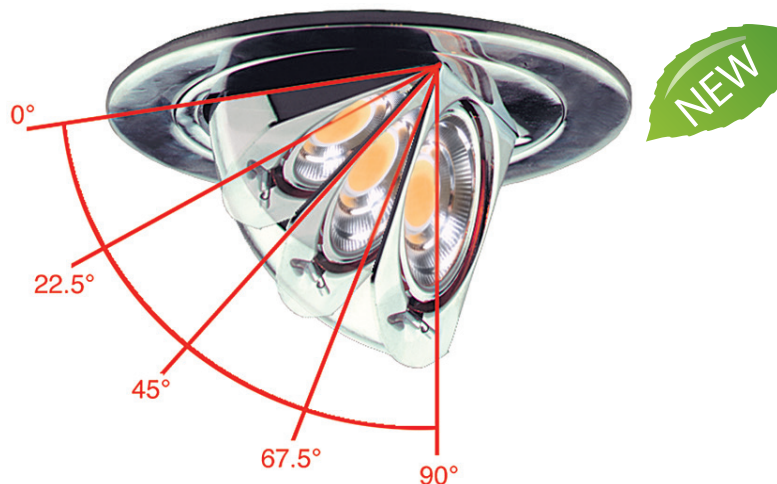
- Fixture adjusts 90° and rotates 359°.
- All die-cast construction is for functional and aesthetic use
- Can be used to accentuate an artwork or a particular object



ND: Narrow Distribution

MD: Medium Distribution

WD: Wide Distribution



LED2-1406-600L- A - B -BK



LED2-1406-600L- A - B -SN



LED2-1406-600L- A - B -CH



LED2-1406-600L- A - B -CP



LED2-1406-600L- A - B -BZ



LED2-1406-600L- A - B -WH

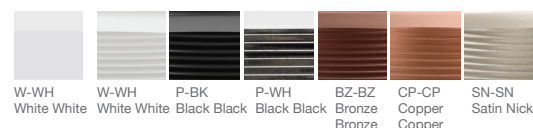
Example: **LED2-1406-600L-ND-30K-WH**

TYPE	SERIES	(A) OPTICS	(B) CCT	CRI	FINISH
LED2-1406 (ADJUSTABLE)	☐ 600L	☐ ND 25°	☐ 27K	☐ 40K	☐ 85+
	☐ 900L	☐ MD 36°	☐ 30K	☐ 50K (85+ CRI ONLY)	☐ 90+
		☐ WD 60°	☐ 35K		☐ BK ☐ SN ☐ CH ☐ CP ☐ BZ ☐ WH

SQUARE BAFFLE AND REFLECTOR W/ SQUARE TRIM RING

Example: **LED2-1496-600L-MD-30K-WH**

TYPE	SERIES	OPTICS	CCT	CRI	FINISH
LED2-1496 (SQUARE BAFFLE)	☐ 600L	☐ MD (Medium)	☐ 27K	☐ 40K	☐ 85+
	☐ 900L		☐ 30K	☐ 50K (85+ CRI ONLY)	☐ 90+
LED2-1498 (SQUARE REFLECTOR)			☐ 35K		☐ W-WH
					☐ P-WH
					☐ P-BK
					☐ CP-CP
					☐ SN-SN
					☐ BZ-BZ



H-LED2-4-600L-DIMTR-LED2-1406-600L-MD-40K-W-WH

INPUT WATTS: 10.5

LUMENS: 451

CRI: 85+

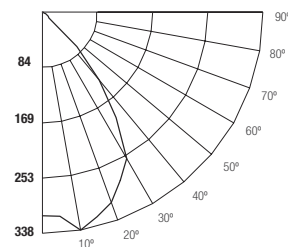
EFFICACY: 43

CCT: 4000K

TEST NO.: EL-071326

SPACING CRITERIA: 1.20

Candle Power Distribution (Candelas)



Cone of Light		
4.0	19.43	9.0'
8.0	4.86	18.0'
12.0	2.16	27.0'
16.0	1.21	36.0'
20.0	0.78	45.0'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	122.15	N.A.	27.10
0-30	252.82	N.A.	56.10
0-40	375.18	N.A.	83.30
0-60	441.65	N.A.	98.00
0-80	449.54	N.A.	99.80
0-90	450.54	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	51789	51789	51789
55	9321	9321	9321
65	6482	6482	6482
75	4287	4287	4287
85	5126	5126	5126

Lumens Per Zone

Zone	Lumens
0-10	30.76
10-20	91.39
20-30	130.66
30-40	122.36
40-50	56.73
50-60	9.73
60-70	5.51
70-80	2.38
80-90	0.99

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	310
5	313
15	323
25	283
35	196
45	74
55	10
65	5.5
75	2
85	0.9
90	0.2

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	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%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	102	102	100	92
	1	113	110	107	104	110	107	105	103	103	101	99	93	90	87	90	88	85	84	85	85	84	
	2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	85	85	84	
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	4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	74	71	64	61	59	58	
	5	88	79	73	68	87	78	72	67	76	71	67	74	70	66	73	69	66	64	61	59	58	
	6	83	73	67	62	82	72	66	62	71	65	61	69	64	61	68	64	60	59	56	54	53	
	7	78	68	61	57	77	67	61	57	66	60	56	65	60	56	64	59	56	54	51	50	49	
	8	74	63	57	52	73	63	56	52	62	56	52	61	55	52	60	55	51	48	46	45	44	
	9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46	44	43	42	
10	66	55	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	42	41	40		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

H-LED2-4-600L-DIMTR-LED2-1406-600L-ND-40K-CL-WH

INPUT WATTS: 10.5

LUMENS: 433

CRI: 85+

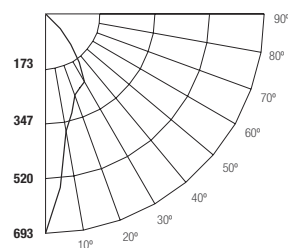
EFFICACY: 41

CCT: 4000K

TEST NO.: EL-071327

SPACING CRITERIA: 0.76

Candle Power Distribution (Candelas)



Cone of Light		
4.0	43.3	7.9'
8.0	10.8	15.8'
12.0	4.8	23.7'
16.0	2.7	31.7'
20.0	1.7	39.6'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	138.61	N.A.	32.00
0-30	258.19	N.A.	59.70
0-40	373.89	N.A.	86.40
0-60	427.58	N.A.	98.80
0-80	431.91	N.A.	99.80
0-90	432.60	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	45498	45498	45498
55	3792	3792	3792
65	3218	3218	3218
75	2845	2845	2845
85	3549	3549	3549

Lumens Per Zone

Zone	Lumens
0-10	47.98
10-20	90.62
20-30	119.58
30-40	115.70
40-50	49.73
50-60	3.96
60-70	2.74
70-80	1.59
80-90	0.69

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	693
5	549
15	323
25	258
35	186
45	65
55	4
65	2.7
75	1.5
85	0.6
90	0.2

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	113	110	107	105	110	108	106	103	104	102	100	94	91	89	91	89	87	85			
	2	107	102	97	94	105	100	96	93	97	94	91	88	84	81	85	83	80	78			
	3	101	94	89	85	99	93	88	84	90	86	83	82	78	75	80	77	74	72			
	4	95	87	82	77	94	86	81	77	84	79	76	76	72	69	75	71	68	67			
	5	90	81	75	71	89	80	75	70	79	73	70	72	72	68	75	71	68	67			
	6	85	76	69	65	84	75	69	65	73	68	64	64	68	64	71	67	63	62			
	7	81	71	64	60	79	70	64	60	69	63	59	59	64	59	66	62	59	57			
	8	76	66	60	56	75	66	60	56	65	59	55	55	60	55	63	58	55	53			
	9	73	62	56	52	71	62	56	52	61	55	52	52	57	52	51	59	55	51			
10	69	59	53	48	68	58	52	48	57	52	48	48	53	48	44	56	51	48	50			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

H-LED2-4-600L-DIMTR-LED2-1401-600L-MD-40K-W-WH

INPUT WATTS: 12.2

LUMENS: 466

CRI: 85+

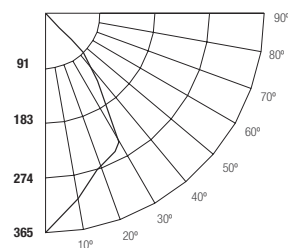
EFFICACY: 38.19

CCT: 4000K

TEST NO.: EL-081312

SPACING CRITERIA: 1.04

Candle Power Distribution (Candelas)



Cone of Light		
4.0	22.8	9.3'
8.0	5.7	18.6'
12.0	2.5	27.8'
16.0	1.4	37.1'
20.0	0.9	46.4'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	112.85	N.A.	24.20
0-30	230.83	N.A.	49.60
0-40	346.93	N.A.	74.50
0-60	431.23	N.A.	92.60
0-80	461.06	N.A.	99.00
0-90	465.74	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	14422	14422	14422
55	5478	5478	5478
65	5394	5394	5394
75	5460	5460	5460
85	6203	6203	6203

Lumens Per Zone

Zone	Lumens
0-10	31.29
10-20	81.56
20-30	117.98
30-40	116.10
40-50	61.92
50-60	22.38
60-70	17.96
70-80	11.87
80-90	4.68

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	365
5	334
15	289
25	255
35	186
45	81
55	24
65	18
75	11
85	4
90	0.8

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90			
	2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
	3	97	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
	4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65			
	5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
	6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
	7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49			
	8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	55	51	47	45			
	9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39				

H-LED2-4-600L-DIMTR-LED2-1402-600L-ND-40K-CL-WH

INPUT WATTS: 12.2

LUMENS: 518

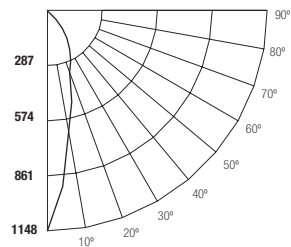
CRI: 85+

EFFICACY: 42.2

CCT: 4000K

TEST NO.: EL-081312

SPACING CRITERIA: 0.52

Candle Power Distribution (Candelas)

Cone of Light		
4.0	71.8	6.8'
8.0	17.9	13.7'
12.0	8.0	20.5'
16.0	4.5	27.3'
20.0	2.9	34.1'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	217.07	N.A.	41.90
0-30	349.05	N.A.	67.40
0-40	459.28	N.A.	88.70
0-60	511.71	N.A.	98.80
0-80	516.37	N.A.	99.70
0-90	517.80	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	11225	11225	11225
55	1103	1103	1103
65	869	869	869
75	816	816	816
85	1890	1890	1890

Lumens Per Zone

Zone	Lumens
0-10	80.77
10-20	136.30
20-30	131.98
30-40	110.23
40-50	47.93
50-60	4.50
60-70	2.89
70-80	1.78
80-90	1.43

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	1148
5	920
15	493
25	287
35	177
45	63
55	5
65	2
75	1.6
85	1.3
90	1.1

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

	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%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	113	111	108	106	111	108	106	104	104	103	101	99	98	97	96	95	95	93			
	2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
	3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
	4	97	90	84	80	95	89	83	80	86	82	79	84	81	78	83	79	77	75			
	5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
	6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66			
	7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
	8	80	70	65	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
	9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55			
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

H-LED2-4-600L-DIMTR-120-LED2-600L-1405-MD-40K-W-WH

INPUT WATTS: 11.1

LUMENS: 547

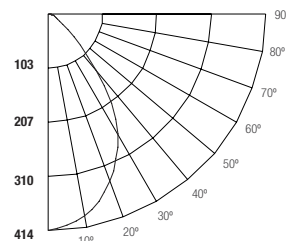
CRI: 85+

EFFICACY: 49.7

CCT: 4000K

TEST NO.: LLI-1204

SPACING CRITERIA: 1.04

Candle Power Distribution (Candelas)

Cone of Light		
4.0	25.8	12.2'
6.0	6.5	24.5'
8.0	2.9	36.7'
10.0	1.6	49.0'
12.0	1.0	61.2'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	137.73	28.20	28.10
0-30	265.25	54.30	54.20
0-40	376.47	77.00	76.90
0-60	468.91	95.90	95.80
0-80	487.77	99.80	99.70
0-90	489.42	100.10	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	18419	18218	15012
55	9289	8163	5343
65	6311	4216	4055
75	0	3378	3068
85	0	0	71

Lumens Per Zone

Zone	Lumens
0-10	38.54
10-20	104.35
20-30	139.55
30-40	130.10
40-50	79.55
50-60	33.44
60-70	16.69
70-80	4.92
80-90	0.31

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	413
5	407
15	368
25	300
35	208
45	105
55	43
65	21
75	0
85	0
90	0

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

	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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	112	109	106	104	107	107	104	102	101	99	99	97	96	96	94	93	91	91			
	2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82			
	3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
	4	93	83	77	72	91	82	76	71	80	75	70	78	73	70	76	72	69	67			
	5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
	6	81	71	64	59	80	70	63	59	68	63	58	67	62	58	66	61	57	56			
	7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51			
	8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47			
	9	68	57	50	46	67	56	50	45	55	49	45	54	49	45	53	49	45	43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

H-LED2-4-600L-DIMTR-120-LED2-1428-600L-MD-40K-CL-WH

INPUT WATTS: 10.9

LUMENS: 642

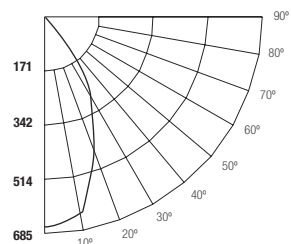
CRI: 85+

EFFICACY: 59

CCT: 4000K

TEST NO.: LLI-1205

SPACING CRITERIA: 0.88

Candle Power Distribution (Candelas)

Cone of Light		
4.0	42.3	8.9'
6.0	10.6	17.9'
8.0	4.7	26.8'
10.0	2.6	35.7'
12.0	1.7	44.7'
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	218.90	34.20	34.10
0-30	390.70	61.00	60.90
0-40	530.84	82.90	82.70
0-60	632.63	98.80	98.60
0-80	641.60	100.20	100.00
0-90	641.62	100.20	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	18700	17518	16111
55	7229	6189	4045
65	3839	1738	1560
75	0	577	67
85	0	0	28

Lumens Per Zone

Zone	Lumens
0-10	62.20
10-20	156.70
20-30	171.80
30-40	140.13
40-50	77.13
50-60	24.66
60-70	8.00
70-80	0.98
80-90	0.02

Candela Tabulation

Vertical Angle	Candela at Horizontal Angle 0
0	676
5	643
15	543
25	379
35	233
45	107
55	33
65	13
75	0
85	0
90	0

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

	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%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	107	107	107	102	102	102	100	
	1	113	110	108	105	111	108	106	104	104	102	100	99	97	97	97	96	94	93	
	2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	
	3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	
	4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	
	6	85	75	69	64	83	75	68	64	73	68	64	72	67	63	70	66	63	61	
	7	80	69	63	59	78	70	64	59	68	63	59	67	62	58	66	62	58	57	
	8	76	66	60	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	
	9	72	62	56	51	71	61	55	51	60	55	51	60	54	51	59	54	51	49	
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46		