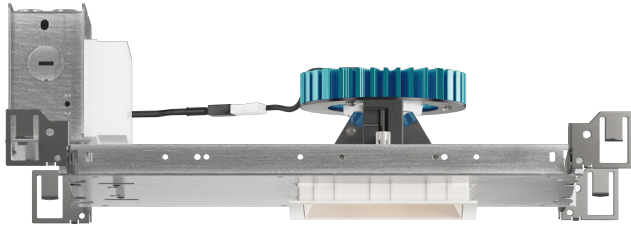


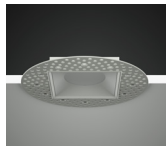
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

NU4

4" Square Downlight Standard White



Trim



Trimless



Trimless Millwork

60° - 80° BEAM QD (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	900LM @30K/80CRI	9W
15LM	1350LM @30K/80CRI	12W
20LM	1910LM @30K/80CRI	17W
25LM	2310LM @30K/80CRI	21W
30LM	2810LM @30K/80CRI	26W
35LM	3270LM @30K/80CRI	31W
40LM	3800LM @30K/80CRI	37W
10LM	760LM @30K/90CRI	9W
15LM	1150LM @30K/90CRI	12W
20LM	1620LM @30K/90CRI	17W
25LM	1970LM @30K/90CRI	21W
30LM	2390LM @30K/90CRI	26W
35LM	2780LM @30K/90CRI	31W
40LM	3230LM @30K/90CRI	37W
Notes	Delivered lumens based on WH80 optic with clear lens, (see page 2?)	

20° - 65° BEAM QDR (Note: Specifications are subject to change without notice)		
14mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	990LM @30K/80CRI	9W
15LM	1485LM @30K/80CRI	12W
20LM	2095LM @30K/80CRI	17W
25LM	2540LM @30K/80CRI	21W
30LM	3090LM @30K/80CRI	26W
35LM	3590LM @30K/80CRI	31W
40LM	4180LM @30K/80CRI	37W
10LM	840LM @30K/90CRI	9W
15LM	1260LM @30K/90CRI	12W
20LM	1780LM @30K/90CRI	17W
25LM	2160LM @30K/90CRI	21W
30LM	2630LM @30K/90CRI	26W
35LM	3050LM @30K/90CRI	31W
40LM	3550LM @30K/90CRI	37W
Notes	Delivered lumens based on 25D optic no lens, (see page 2?)	

8° BEAM QDR (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	790LM @30K/80CRI	12W
15LM	1250LM @30K/80CRI	20W
10LM	670LM @30K/90CRI	12W
15LM	1060LM @30K/90CRI	20W
Notes	Delivered lumens based on 8D optic no lens, (see page 2?)	

12° BEAM QDR (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	810LM @30K/80CRI	9W
15LM	1580LM @30K/80CRI	17W
20LM	2010LM @30K/80CRI	23W
10LM	690LM @30K/90CRI	9W
15LM	1340LM @30K/90CRI	17W
20LM	1710LM @30K/90CRI	23W
Notes	Delivered lumens based on 12D optic no lens, (see page 2?)	



FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 8° - 80° optical beam control
- UGR < 17
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- Lutron Hi-lume 1% 3-wire/Ecosystem
- Lutron athena wireless node
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi bluetooth dimming to 1.0%
- NLight control interface dimming to 0%

CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless BLE signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 3/8" to 1-5/8"

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs
- 80 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀ > 66,000 hrs

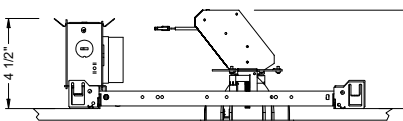
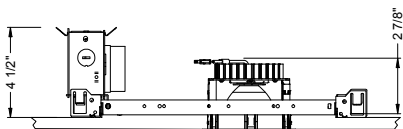
LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (shower approved)
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

- 120V-277V, 120 only Triac / ELV
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Remote and Integral (ITS) emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

FIXTURE HEIGHT



TRIMMED

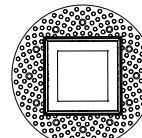


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

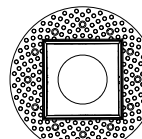


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

TRIMLESS



ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"



ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"

MILLWORK



ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"



ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

60°- 80° BEAM ORDERING CODE

SERIES	NU4	NU4
TYPE	QD	square downlight
	QDT	square downlight trimless
	QDTMW	square downlight trimless millwork
LED	SW	standard white
DELIVERED LUMENS	10LM	900 lm
	15LM	1350 lm
	20LM	1910 lm
	25LM	2310lm
	30LM	2810 lm
	35LM	3270 lm
	40LM	3800 lm
Standard Configuration: 3000K 80CRI WH80 Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]		
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	80	80 CRI
	90	90 CRI
OPTIC & LM MULTIPLIER SEE PAGE 4	HE60	60° high efficiency diffused lens (0.96)
	HE70	70° high efficiency diffused lens (0.88)
	HE80	80° high efficiency diffused lens (0.95)
	D65	65° diffused with clear lens (0.96)
	WH80	80° brilliant white with clear lens (1.00)
BEZEL LENS SEE PAGE 4	NL^{1,2}	no lens
TRIM COLOR SEE PAGE 4	BK	black
	WH	white
	MC	matte chrome
	BZ	bronze
	WT	wheat
	CC³	custom color, consult factory for details
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.		
Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 4	BK	black (0.98)
	WH	white (1.00)
	MC	matte chrome (0.99)
	BZ	bronze (0.98)
	WT	wheat (0.99)
	CC³	custom color, consult factory for details
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.		

60°- 80° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 10, 11	NC	new construction with ceiling fitting plate
	IC⁴	insulation contact housing
	ICAT⁴	insulation contact/airtight housing
	CP⁴	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX control dimming to 0.1% with wire lead connection
	DMX-XLR	DMX control dimming to 0.1% with XLR 5pin connection
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP⁵	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV⁶	leading & trailing edge (Triac/ELV) dimming to 1%
NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off	
CAS	Casambi Bluetooth control with flicker free 1.0% dimming	
AWN⁷	lutron athena wireless node	
ELECTRICAL OPTIONS	EM7⁸	emergency battery backup, 90 minutes at 7W to LED
	EM12⁸	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20⁸	emergency battery backup, 90 minutes at 10W to LED, CA title 20

ADDITIONAL MOUNTING INFO

New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:
NU4 - QD - SW - 20LM - 35K - 90 - HE60 - WH - WH - NC - DIM10

NOTES

- NL available for D65/WH80.
- NL option does not meet requirement for AT/DF/WET/NSF listings.
- Custom set up fee plus minimum quantity required per color.
- IC/ICAT/CP not available in 40LM.
- LUTP not available in 25LM/30LM/40LM.
- ELV1 (120V) not available in 10LM.
- AWN⁷ reference page 13 for product specifications on Athena wireless node.
- For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

* EldoLED and DMX uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

30° - 70° BEAM ORDERING CODE

SERIES	NU4	NU4
TYPE	QDR	square to round downlight
	QDRT	square to round downlight trimless
	QDRTMW	square to round downlight trimless millwork
LED	SW	standard white
DELIVERED LUMENS	10LM	990 lm
	15LM	1485 lm
	20LM	2095 lm
	25LM	2540 lm
	30LM	2630 lm
	35LM	3590 lm
	40LM	4180 lm
Standard Configuration: 3000K 80CRI 25D NL Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]		
CCT	27K	2700K
	30K	3000K
	35K	3500K
	40K	4000K
CRI	80	80 CRI
	90	90 CRI
OPTIC & LM MULTIPLIER SEE PAGE 4	8D ¹	8 degrees (1.00)
	12D ¹	12 degrees (1.00)
	20D	20 degrees (0.99)
	25D	25 degrees (1.00)
	35D	35 degrees (0.99)
	50D	50 degrees (0.99)
	65D	65 degrees (0.99)
BEZEL LENS SEE PAGE 4	NL ²	no lens (1.00)
	CL	clear lens (1.00)
	DL	diffused lens (0.91)
	E ³	elliptical beam spread (0.92)
	HCL ⁴	honeycomb louver (0.85)
	HET	high efficiency textured lens, similar to Solite™ (0.92)
TRIM COLOR SEE PAGE 4	SBL	smoothing beam lens (0.92)
	BK	black
	WH	white
	MC	matte chrome
	BZ	bronze
	WT	wheat
BEZEL COLOR SEE PAGE 4	CC ⁵	custom color, consult factory for details
	Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.	
	Not applicable to trimless option. Do not include in trimless ordering code.	
BEZEL COLOR SEE PAGE 4	BK	black (0.98)
	WH	white (1.00)
	MC	matte chrome (0.99)
	BZ	bronze (0.98)
	WT	wheat (0.98)
	CC ⁵	custom color, consult factory for details
Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.		

30° - 70° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 10, 11	NC	new construction with ceiling fitting plate
	IC ⁶	insulation contact housing
	ICAT ⁶	insulation contact/airtight housing
	CP ⁶	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI dimming to 1%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	DMX-RJ45	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL	DMX control dimming to 0.1% with wire lead connection
	DMX-XLR	DMX control dimming to 0.1% with XLR 5pin connection
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP ⁷	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELVI ⁸	leading & trailing edge (Triac/ELV) dimming to 1%
NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off	
CAS	Casambi Bluetooth control with flicker free 1.0% dimming	
AWN ⁹	lutron athena wireless node	
ELECTRICAL OPTIONS	EM7 ¹⁰	emergency battery backup, 90 minutes at 7W to LED
	EM12 ¹⁰	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20 ¹⁰	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20

ADDITIONAL MOUNTING INFO

New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:
NU4 - QDR - SW - 20LM - 35K - 90 - HE60 - WH - WH - NC - DIM10

NOTES

- 8D/12D available in 10LM/15LM/20LM
- NL option does not meet requirements for AT/DF/WET/NSF listings. Lensing cannot be added in the field.
- Elliptical lens not available with 8D/12D optic options. Actual beam distributions [20D= 35° x 60°, 25D= 40° x 65°, 35D= 45° x 70°, 55D= 55° x 80°]
- HCL not available with lens.
- Custom set up fee plus minimum quantity required per color.
- IC/ICAT/CP not available in 40LM.
- LUTP not available in 25LM/30LM/40LM.
- ELVI (120V) not available in 10LM.
- AWN reference page 13 for product specifications on Athena wireless node.
- For integrated test switch add "ITS" after emergency backup code, i.e. EM12ITS. Test switch is mounted in the bezel of the fixture.

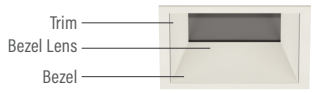
*EldoLED and DMX uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

alphabet

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

QD TRIM

TRIM/BEZEL COLORS



WH



MC



BK



BZ



WT

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
D65	68	20.1
WH80	77	22.8

HE

High Efficiency Lens



OPTIC	BEAM ANGLE	UGR
HE60	67	22.5
HE70	74	22.8
HE80	82	24.2

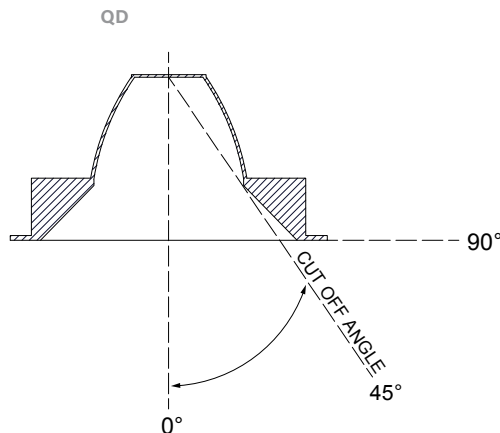
GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- QD Cutoff angle of CL is 45 degrees;

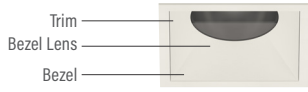


alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

QDR TRIM

TRIM/BEZEL COLORS



WH



MC



BK



BZ



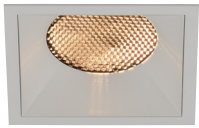
WT

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

HCL

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
8D	7.8	9
12D	11.3	22.1
20D	17.4	11.6
25D	22.2	13
35D	32.4	15.6
50D	44.9	12.5
65D	52	14.6

NL

No Lens



OPTIC	BEAM ANGLE	UGR
8D	7.8	12.8
12D	11.9	13.1
20D	18	12.7
25D	22.8	12.3
35D	36.2	13.6
50D	49.2	17.5
65D	64.5	17.9

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
8D	7.9	12.2
12D	12.1	12.6
20D	18	12.4
25D	22.8	11.9
35D	36.2	13.3
50D	49.2	17.2
65D	64.6	17.6

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	39.4	18.6
25D	42.4	18.9
35D	50.6	19.9
50D	56.7	20.5
65D	66.7	22.4

HE

High Efficiency Lens



OPTIC	BEAM ANGLE	UGR
8D	14	14
12D	17	12.7
20D	22.5	12.9
25D	27	13.1
35D	38.8	14.9
50D	49.8	15.6
65D	60.4	18.6

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
8D	10.2	11.4
12D	13.2	12.3
20D	19.3	12.1
25D	24.3	12.2
35D	37.2	13.9
50D	51.2	14.7
65D	62.2	17.9

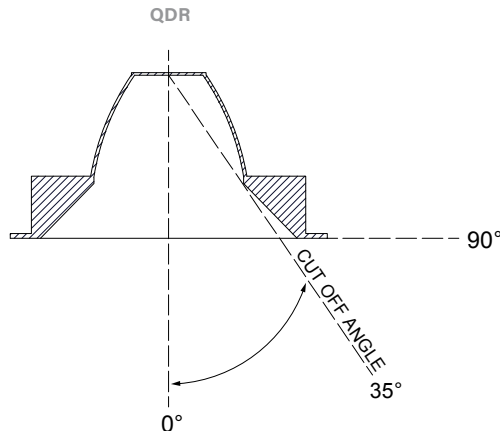
GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- QDR Cutoff angle of CL is 35 degrees;



PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

QD PHOTOMETRIC DATA

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

D65 69° DIFFUSED WITH CLEAR LENS

WATTS:: 17.2	LPW:: 106.6
LUMENS: 1833	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1625
5	1603
15	1431
25	1143
35	792
45	178

HE60 67° HIGH EFFICIENCY DIFFUSED LENS

WATTS:: 17.2	LPW:: 105.9
LUMENS: 1821	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1415
5	1392
15	1226
25	966
35	667
45	334

HE80 85° HIGH EFFICIENCY DIFFUSED LENS

WATTS:: 17.2	LPW:: 104.8
LUMENS: 1803	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	977
5	971
15	923
25	826
35	670
45	417

WH80 80° BRILLIANT WHITE WITH CLEAR LENS

WATTS:: 17.2	LPW:: 110.9
LUMENS: 1907	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1109
5	1105
15	1074
25	998
35	861
45	319

40LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

D65 69° DIFFUSED WITH CLEAR LENS

WATTS:: 37.3	LPW:: 98
LUMENS: 3657	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	3243
5	3198
15	2855
25	2281
35	1580
45	355

HE60 67° HIGH EFFICIENCY DIFFUSED LENS

WATTS:: 37.3	LPW:: 97.4
LUMENS: 3634	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	2823
5	2777
15	2447
25	1928
35	1331
45	666

HE80 85° HIGH EFFICIENCY DIFFUSED LENS

WATTS:: 37.3	LPW:: 96.4
LUMENS: 3597	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	1950
5	1938
15	1842
25	1649
35	1338
45	833

WH80 80° BRILLIANT WHITE WITH CLEAR LENS

WATTS:: 37.3	LPW:: 102
LUMENS: 3805	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	2212
5	2205
15	2142
25	1991
35	1718
45	636

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

QDR PHOTOMETRIC DATA

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

20D 18° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.9
8	2.5
10	3.2
12	3.8
14	4.4
Illuminance at Center (fc)	
323	
182	
116	
81	
59	
WATTS:: 17.2	LPW:: 121.4
LUMENS: 2088	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	11622
5	10517
15	2170
25	862
35	401
45	3

25D 23° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	2.4
8	3.2
10	4
12	4.8
14	5.6
Illuminance at Center (fc)	
244	
137	
88	
61	
45	
WATTS:: 17.2	LPW:: 122.1
LUMENS: 2099	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	8779
5	7589
15	2759
25	940
35	372
45	2

35D 36° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	3.9
8	5.2
10	6.5
12	7.8
14	9.1
Illuminance at Center (fc)	
128	
72	
46	
32	
23	
WATTS:: 17.2	LPW:: 120.6
LUMENS: 2074	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	4594
5	4283
15	2845
25	1317
35	435
45	10

40LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

20D 18° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	1.9
8	2.5
10	3.2
12	3.8
14	4.4
Illuminance at Center (fc)	
644	
362	
232	
161	
118	
WATTS:: 37.3	LPW:: 111.7
LUMENS: 4165	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	23188
5	20984
15	4329
25	1719
35	799
45	5

25D 23° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	2.4
8	3.2
10	4
12	4.8
14	5.6
Illuminance at Center (fc)	
487	
274	
175	
122	
89	
WATTS:: 37.3	LPW:: 112.3
LUMENS: 4189	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	17516
5	15142
15	5504
25	1876
35	742
45	4

35D 36° NO LENS	
Throw Distance (ft)	Beam Diameter (ft)
6	3.9
8	5.2
10	6.5
12	7.8
14	9.1
Illuminance at Center (fc)	
255	
143	
92	
64	
47	
WATTS:: 37.3	LPW:: 110.9
LUMENS: 4138	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	9166
5	8545
15	5676
25	2627
35	868
45	19

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

QDR PHOTOMETRIC DATA

20LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

**50D
49° NO LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	9.0
8	5.1
10	3.3
12	2.3
14	1.7

ILLUMINANCE at Center (fc)

WATTS:: 17.2	LPW:: 121.2
LUMENS: 2085	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	3253
5	3231
15	2606
25	1591
35	450
45	13

**65D
65° NO LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	5.9
8	3.3
10	2.1
12	1.5
14	1.1

ILLUMINANCE at Center (fc)

WATTS:: 17.2	LPW:: 120.9
LUMENS: 2080	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	2103
5	2101
15	1990
25	1520
35	779
45	144

40LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

**50D
49° NO LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	180
8	102
10	65
12	45
14	33

ILLUMINANCE at Center (fc)

WATTS:: 37.3	LPW:: 111.5
LUMENS: 4160	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	6491
5	6446
15	5200
25	3175
35	898
45	25

**65D
65° NO LENS**

Throw Distance (ft)	Beam Diameter (ft)
6	117
8	66
10	42
12	29
14	21

ILLUMINANCE at Center (fc)

WATTS:: 37.3	LPW:: 111.2
LUMENS: 4150	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	4195
5	4191
15	3971
25	3033
35	1555
45	288

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

QDR PHOTOMETRIC DATA

10LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

**8D
8° NO LENS**

WATTS:: 12	LPW:: 66
LUMENS: 792	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	20223
5	6477
15	368
25	287
35	170
45	0

**12D
12° NO LENS**

WATTS:: 8.7	LPW:: 92.8
LUMENS: 807	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	9574
5	6065
15	532
25	299
35	155
45	0

15LM CCT MULTIPLIERS		
	80CRI	90CRI
2700K	0.96	0.81
3000K	1	0.85
3500K	1.03	0.88
4000K	1.06	0.91
FC Formula = CBCP / Distance ²		

**8D
8° NO LENS**

WATTS:: 20	LPW:: 62.4
LUMENS: 1248	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	31866
5	10206
15	579
25	452
35	269
45	1

**12D
12° NO LENS**

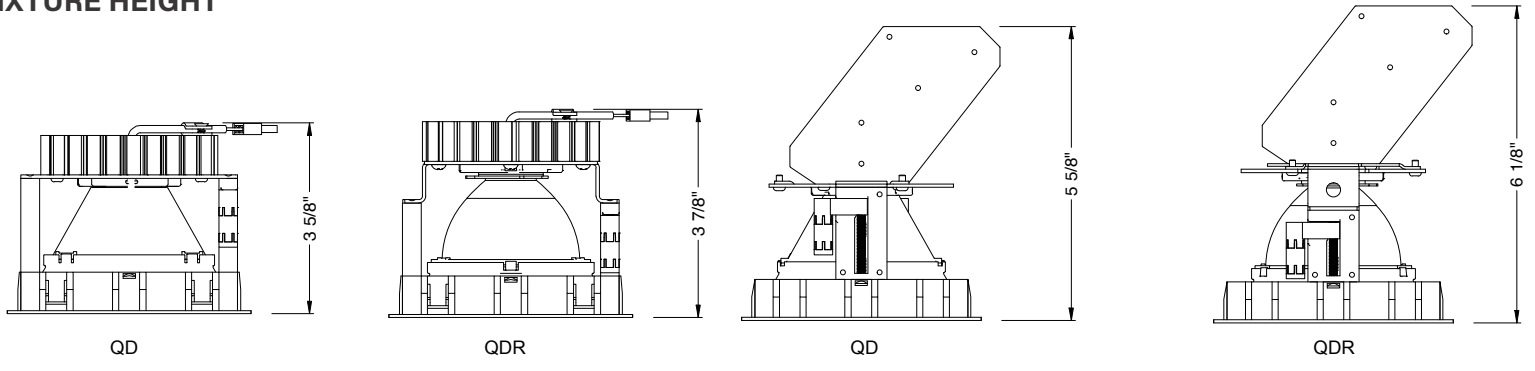
WATTS:: 17	LPW:: 92.9
LUMENS: 1579	CCT:: 3000K
INTENSITY	
DEGREE	CANDELA
0	18725
5	11861
15	1041
25	585
35	303
45	0

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

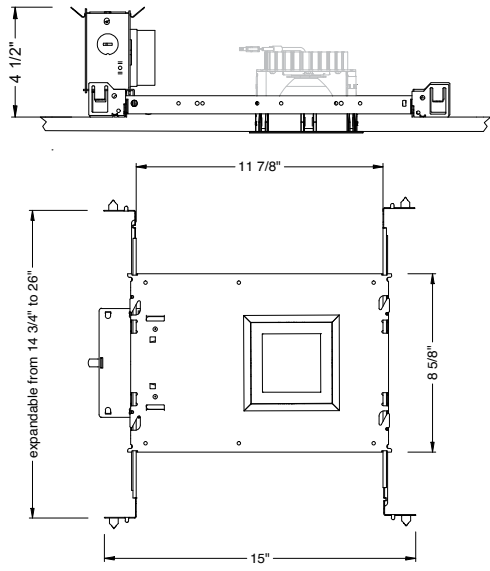
MOUNTING OPTIONS

FIXTURE HEIGHT

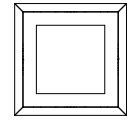


NC - NEW CONSTRUCTION

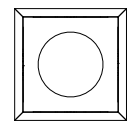
TRIM



TRIM

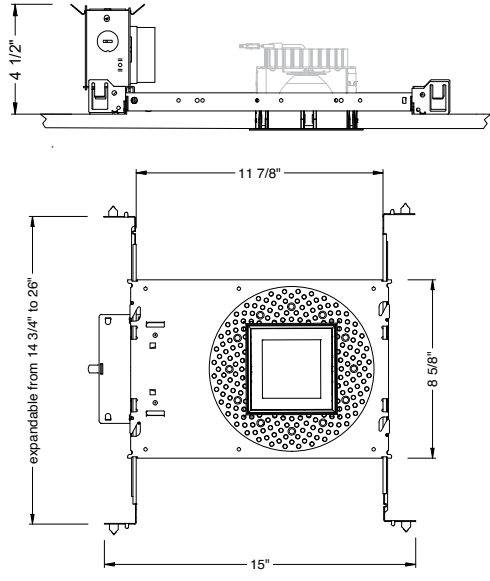


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

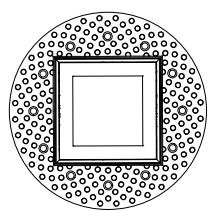


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-5/8"

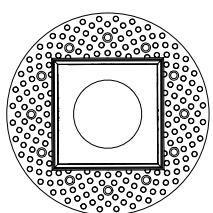
TRIMLESS



TRIMLESS

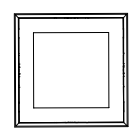


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"

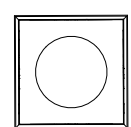


ceiling cutout 4-1/4" square
ceiling thickness 3/8" to 1-3/4"

TRIMLESS/MILLWORK



ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"

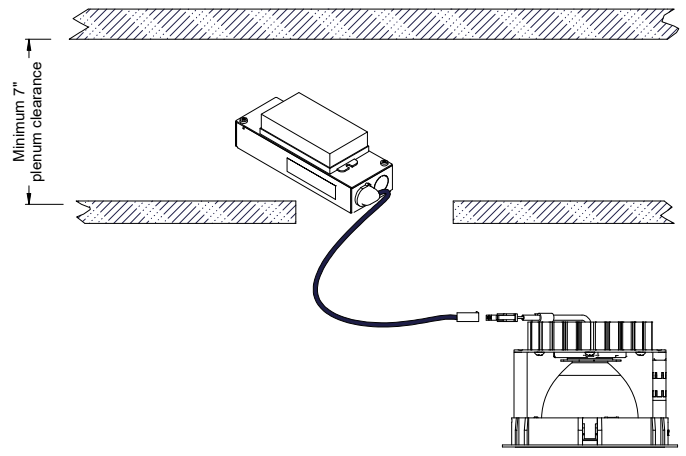


ceiling cutout 4-1/4" square
ceiling thickness 5/8" to 1-3/4"

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

MOUNTING OPTIONS (CONTINUED)

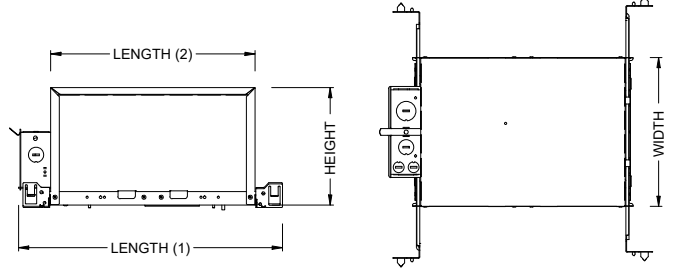
RET - RETRO TRIM/TRIMLESS



RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✓	✓			
TYPE IC			✓	✓	✓
CHICAGO PLENUM (CCEA)					✓
SUITABLE FOR AIR HANDLING PLENUMS				✓	✓
REDUCED AIRFLOW (WITH LENS) ASTM E283	✓	✓	✓	✓	✓

CEILING THICKNESS		
FIXTURE TYPE	MOUNTING TYPE	
		NC, IC, ICAT, CP, RET
	CEILING THICKNESS	CEILING CUTOUT
TRIM	3/8" to 1-5/8"	4-1/4" square
TRIMLESS	3/8" to 1-3/4"	4-1/2" square
MILLWORK (TRIMLESS)	5/8" to 1-3/4"	4-1/4" square

IC - INSULATION CONTACT HOUSING ICAT - INSULATION CONTACT / AIR TIGHT CP - CHICAGO PLENUM



BOX SIZE	L1	L2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS						
LUMEN OUTPUT	BOX - A			BOX - B		
	IC	ICAT	CP	IC	ICAT	CP
10LM	✓	✓	✓			
15LM	✓	✓	✓			
20LM	✓	✓	✓			
25LM	✓	✓	✓			
30LM				✓	✓	✓
35LM						
40LM						

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

BATTERY OPTIONS

EMERGENCY BATTERY

IOTA's ILB Battery Backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The Constant Power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, Output Class 2 Compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes Two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting Requirements. Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires.

REMOTE TEST SWITCH

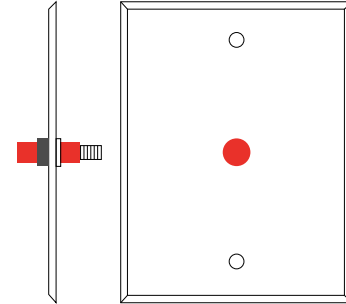
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

REMOTE LOCATION

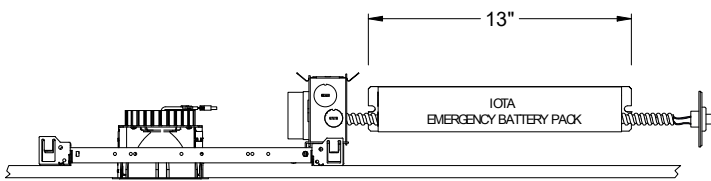
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



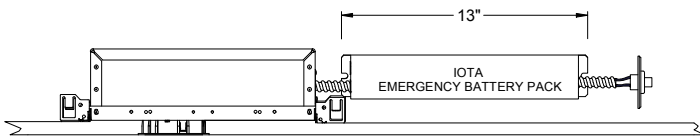
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 40LM)	650LM	930LM	1000LM
Notes: Based on 30K, 80CRI			

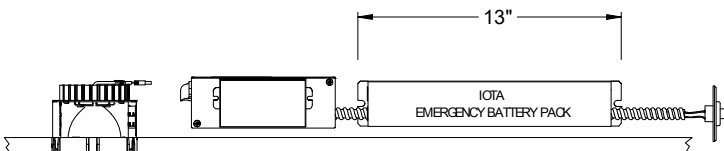
NC - NEW CONSTRUCTION WITH EM BATTERY (REMOTE TEST SWITCH)



IC / ICAT / CP - INSULATION CONTACT HOUSING WITH EM BATTERY (REMOTE TEST SWITCH)

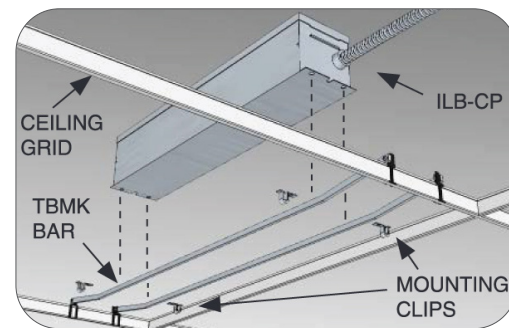


RET - RETROFIT WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit²



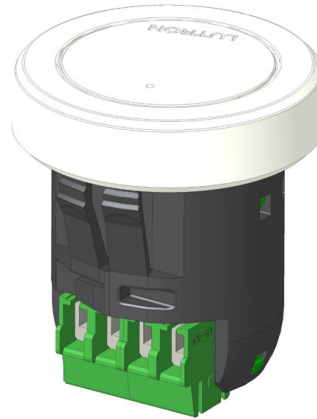
2. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

AWNDR OPTIONS

Athena Wireless Node

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.



Athena Wireless Node RF

AWNDR

Plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics.

FEATURES

- Enables individual, wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring.
- Installed at factory – no wiring required on-site. Fixture is ready to communicate wirelessly once power is connected.
- All drivers on the link are controlled as a single zone.

REGULATORY APPROVALS

- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3).
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0-10 V- Electronic Off

POWER / LOAD

- IEC SELV/NEC® Class 2
- 1 Watt

ENVIRONMENTAL

- Ambient operating temperature (immediate vicinity of Athena wireless node): **32 °F to 131 °F** (0 °C to 55 °C), 0% to 90% humidity.

BATTERY OPTIONS

- For EM options please consult factory.

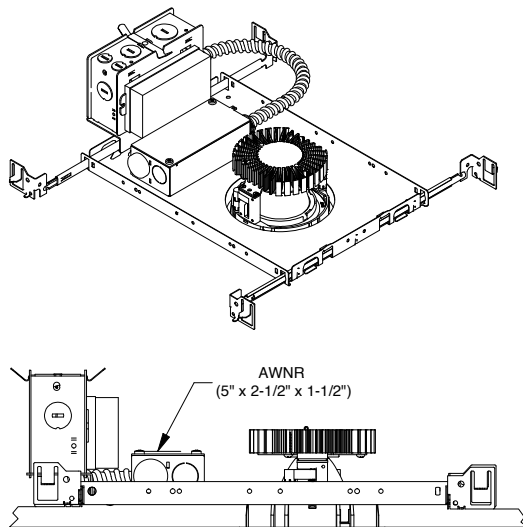
Note: Default behavior prior to programming

- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect – Type X devices.
- For Chicago plenum installations, the Athena wireless node may not be installed in the plenum space. It must be installed in the occupied space.

For servicing the driver/j-box, access above ceiling is required. (NC Mounting)

IC/ICAT/CP not available in AWNR.

NC - NEW CONSTRUCTION



RET - RETRO FIT

