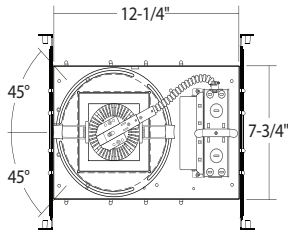
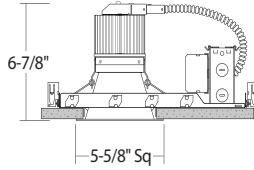


LHABLDQ4 - 4" LUMENBLAST

OPEN & LENSED DOWNLIGHTS, SQUARE, 1000LM - 7000LM



Ceiling Cut-Out: 4-3/4" Sq.
Ceiling Thickness: 2" Max.



LHABLDQ4



- Illuminate up to 70' ceilings
- Four trim finishes
- Low glare design
- Highly efficient COB (Chip on Board) LED

ORDERING : LHABLDQ420C050UE-DUN-B40-TWD-FS/LRAQ41S

LHABLDQ4

Fixture	Lumen	Dimming	Beam Spread	Color Temperature	Frame Options	Trim	
Fixture		Dimming ¹	Beam Spread		Frame Options		
Downlight	LHABLDQ4	Non-Dimming	Blank	15° Narrow Spot	-B15	None	Blank
		Remote Driver	-RMT	20° Spot	-B20	Generator Transfer Device	-GTD
Lumens (Nominal Delivered)		UniDim™ 0-10V, ELV, Triac Dimming (5%)	UE-DUN	40° Flood	-B40	Single Fuse	-FS
1000lm (9W)	12C025			70° Very Wide Flood	-B70	Remote Emergency Backup (12W)	-EM
1500lm (13W)	15C035					Remote Emergency Inverter (up to 28W)	-EMAC⁴
2500lm (19W)	20C050	Wireless Enocean Adapter (10%)	UE-DEN	Color Temperature		C-Channel Hanger Bar Set	C260
3500lm (27W)	35C070			2700K, 80 CRI	-T27	Adjustable C-Channel Hanger Bar Set	C260-J
5000lm (41W)	45C105	DMX Dimming (0%)	UE-DMX	2700K, 90 CRI	-T27-C90		
6000lm (51W)	50C085	0-10V Dimming (1%)	UE-D10P1	2700K, 97 CRI	-T27-C97		
7000lm (64W)	60C105⁵	347V 0-10V Dimming (5%)	-347V-D10	3000K, 80 CRI	-T30		
		Lutron Hilume/ Ecoystem Dimming (1%)	UE-DHL	3000K, 90 CRI	-T30-C90		
		120V 2-Wire Incandescent (1%)	DINP1	3000K, 97 CRI	-T30-C97		
				3500K, 80 CRI	-T35	Trim (Open)	
				4000K, 80 CRI	-T40	All White	LRAQ41W
				Warm dimming 1850K-3000K	-TWD²	All Black	LRAQ41B
				Tunable White 2700K-6500K	-TTW³	All Satin Haze	LRAQ41S
						Satin Haze/White	LRAQ41SW
						Trim (Frosted Lens)	
						All White	LRAQ42W
						All Black	LRAQ42B
						All Satin Haze	LRAQ42S
						Satin Haze/White	LRAQ42SW
						(For wet locations add -WL)	

¹ All drivers are 120V/277V unless otherwise noted.

² Warm Dimming only available for 1000lm and 1500lm options.

³ Tunable White only available with 0-10V signal via “UE-D10P1” option or DMX signal via “UE-DMX” option for 1500lm & 3500lm option only.

⁴ EMAC emergency option fully illuminates during power failure. Only available for 9W, 13W, 19W and 28W options.

⁵ Not available for UE-DUN Dimming.

OPTIONS

/C260

C-Channel Hanger Bar Set



/C260-J

Adjustable C-Channel Hanger Bar Set



SPECIFICATION

Applications

The 4" LumenBlast housing is designed for medium to high ceiling heights and is available as a fixed downlight. With four trim options and four trim finishes, the luminaire offers the versatility and high lumen output that is ideal for classrooms, office lobbies and retail applications.

Housing Frame

16 gauge galvanized plaster ring with powder coat finish, six friction clips secure trim to housing for ceilings up to 2 1/4" thick.

Mounting

Housing suitable for new construction installations only, Bat-Wing bar hanger brackets adjust vertically 3 1/4" for multiple ceiling types and accepts 1/2" EMT. 26"C Channel Strut for T-bar ceilings and 27" adjustable linear hanger bars for plaster ceilings or wood/metal joists. Heavy duty 16-gauge, die-formed galvanized steel. Bar hangers optional.

Optics

LED Light Engine - COB (Chip on Board) LED is replaceable via quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Beam Spread - Available in 15° Narrow Spot (B15), 20° Spot (B20), 40° Flood (B40) and 70° Very Wide Flood (B70).

Color Temperature - Comes standard with 3000K Warm White LEDs binned to 3-step MacAdam ellipses within the ANSI C78 377A standard for color temperature and chromaticity ranges light binning allowance. Also available in 2700K, 3500K and 4000K

Color Rendering Index - Comes standard with 80 CRI. 90 CRI and 97 CRI (C97) option also available with 2700K and 3000K.

Warm Dimming - Optional from 1850K to 3500K.

Tunable White - Optional with correlated color temperature range from 2700K to 5500K.

Lumen Maintenance - Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management

Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Trims

Open trims are available in all White (LRAQ41W), all Black (LRAQ41B), all Satin Haze (LRAQ41B), and Satin Haze/White (LRAQ61SW). Frosted lens trims are available in all White (LRAQ42W), all Black (LRAQ42B), all Satin Haze (LRAQ42B), and Satin Haze/White (LRAQ42SW).

Certifications and Listings

ETL/cETL listed to UL1598 and UL8750. Suitable for dry and damp locations.

Caution

Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Warranty

Covered by a 5-years warranty for other driver options to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C. Installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

PHOTOMETRY

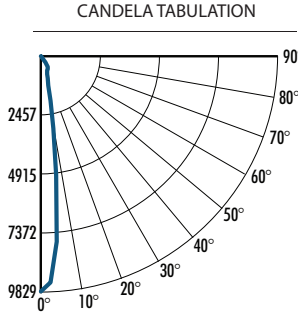
NOMINAL LUMEN PACKAGE:	1000lm	1500lm	2500lm	3500lm	5000lm	6000lm	7000lm
SYSTEM POWER:	9W	13W	19W	27W	41W	51W	64W

LHABLDQ412C025UE-DUN-B15-T40/LRAQ41W (1000lm, 15°, 4000K)

System Power:	8.9W
Test Date:	5/23/2018
Beam Angle 50%:	14.3°
Field Angle 10%:	31.5°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	1308.5
CBCP:	9829
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 5.71	4000K : 1.00
6000lm : 4.70	3500K : 0.99
5000lm : 3.91	3000K : 0.98
3500lm : 2.69	2700K : 0.94
2500lm : 1.95	
1500lm : 1.39	
1000lm : 1.00	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
90 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

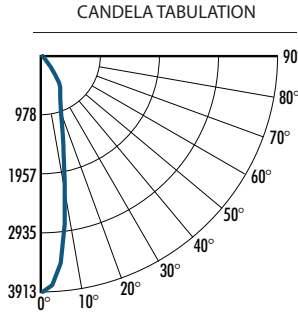
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	1.5'	273.03	130.19
8.0'	2.0'	153.58	73.23
10.0'	2.5'	98.3	46.87
20.0'	5.0'	24.6	11.72
30.0'	7.5'	10.9	5.21

LHABLDQ412C025UE-DUN-B20-T40/LRAQ41W (1000lm, 20°, 4000K)

System Power:	8.9W
Test Date:	5/23/2018
Beam Angle 50%:	21.1°
Field Angle 10%:	68.4°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	1217.5
CBCP:	3913
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 5.71	4000K : 1.00
6000lm : 4.70	3500K : 0.99
5000lm : 3.91	3000K : 0.98
3500lm : 2.69	2700K : 0.94
2500lm : 1.95	
1500lm : 1.39	
1000lm : 1.00	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

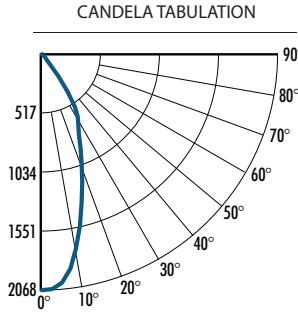
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	2.2'	108.69	56.14
8.0'	3.0'	61.14	31.58
10.0'	3.7'	39.1	20.21
18.0'	6.7'	12.1	6.24
24.0'	8.9'	6.8	3.51

LHABLDQ412C025UE-DUN-B40-T40/LRAQ41W (1000lm, 40°, 4000K)

System Power:	8.9W
Test Date:	5/23/2018
Beam Angle 50%:	38.6°
Field Angle 10%:	75.8°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	1342
CBCP:	2068
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 5.71	4000K : 1.00
6000lm : 4.70	3500K : 0.99
5000lm : 3.92	3000K : 0.98
3500lm : 2.69	2700K : 0.94
2500lm : 1.95	
1500lm : 1.39	
1000lm : 1.00	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

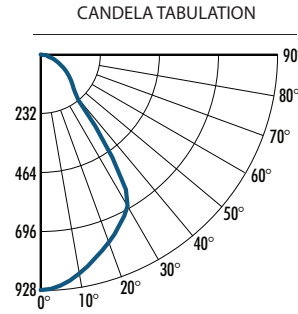
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	4.2'	57.44	23.73
8.0'	5.6'	32.31	13.35
10.0'	7.0'	20.7	8.54
14.0'	9.8'	10.6	4.36
18.0'	12.6'	6.4	2.64

LHABLDQ412C025UE-DUN-B70-T40/LRAQ41W (1000lm, 70°, 4000K)

System Power:	8.9W
Test Date:	5/23/2018
Beam Angle 50%:	70.5°
Field Angle 10%:	123.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	1342
CBCP:	928
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 5.71	4000K : 1.00
6000lm : 4.70	3500K : 0.99
5000lm : 3.91	3000K : 0.98
3500lm : 2.69	2700K : 0.94
2500lm : 1.95	
1500lm : 1.39	
1000lm : 1.00	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	8.5'	25.78	7.49
8.0'	11.3'	14.50	4.21
10.0'	14.1'	9.3	2.70
12.0'	17.0'	6.4	1.87
14.0'	19.8'	4.7	1.38

PHOTOMETRY

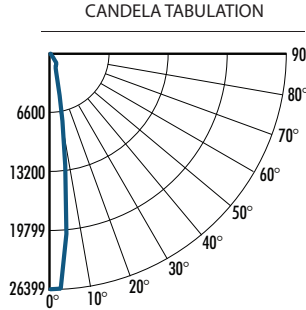
NOMINAL LUMEN PACKAGE:	1000lm	1500lm	2500lm	3500lm	5000lm	6000lm	7000lm
SYSTEM POWER:	9W	13W	19W	27W	41W	51W	64W

LHABLDQ435C070UE-DUN-B15-T40/LRAQ41W (3500lm, 15°, 4000K)

System Power:	27.4W
Test Date:	5/23/2018
Beam Angle 50%:	14.3°
Field Angle 0%:	31.5°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	3514.4
CBCP:	26399
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

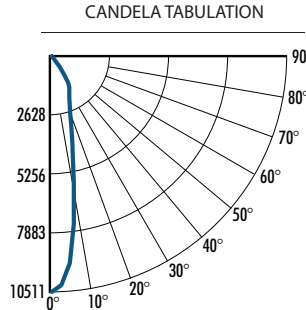
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	1.5'	733.31	727.67
8.0'	2.0'	412.48	409.32
10.0'	2.5'	264.0	261.96
20.0'	5.0'	66.0	65.49
30.0'	7.5'	29.3	29.11

LHABLDQ435C070UE-DUN-B20-T40/LRAQ41W (3500lm, 20°, 4000K)

System Power:	27.4W
Test Date:	5/23/2018
Beam Angle 50%:	21.1°
Field Angle 10%:	68.4°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	3270.2
CBCP:	10511
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

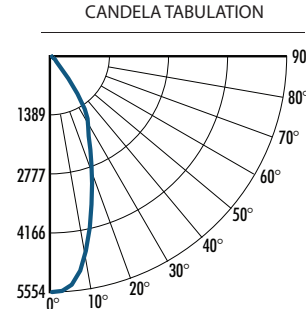
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	2.2'	291.97	320.43
8.0'	3.0'	164.23	180.24
10.0'	3.7'	105.1	115.36
18.0'	6.7'	32.4	35.60
24.0'	8.9'	18.2	20.03

LHABLDQ412C025UE-DUN-B40-T40/LRAQ41W (3500lm, 40°, 4000K)

System Power:	27.4W
Test Date:	5/23/2018
Beam Angle 50%:	38.6°
Field Angle 10%:	75.8°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	3604
CBCP:	5554
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

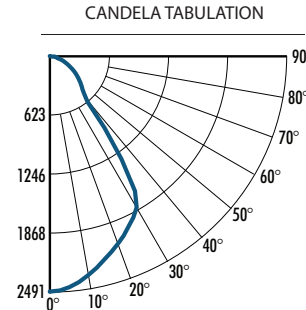
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	4.2'	154.28	63.75
8.0'	5.6'	86.78	35.86
10.0'	7.0'	55.5	22.95
14.0'	9.8'	28.3	11.71
18.0'	12.6'	17.1	7.08

LHABLDQ435C070UE-DUN-B70-T40/LRAQ41W (3500lm, 70°, 4000K)

System Power:	27.4W
Test Date:	5/23/2018
Beam Angle 50%:	70.5°
Field Angle 10%:	123.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	3604
CBCP:	2491
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	8.5'	69.19	20.11
8.0'	11.3'	38.92	11.31
10.0'	14.1'	24.9	7.24
12.0'	17.0'	17.3	5.03
14.0'	19.8'	12.7	3.69

PHOTOMETRY

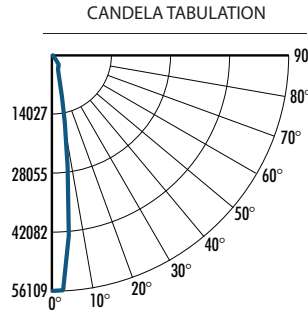
NOMINAL LUMEN PACKAGE:	1000lm	1500lm	2500lm	3500lm	5000lm	6000lm	7000lm
SYSTEM POWER:	9W	13W	19W	27W	41W	51W	64W

LHABLDQ460C105UE-DUN-B15-T40/LRAQ41W (7000lm, 15°, 4000K)

System Power:	63.8W
Test Date:	5/24/2018
Beam Angle 50%:	14.3°
Field Angle 10%:	31.5°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	7469.7
CBCP:	56109
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

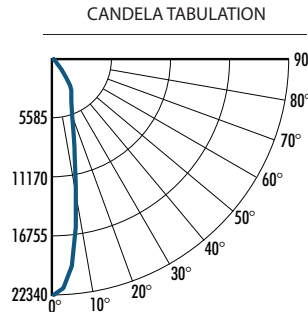
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	1.5'	1558.58	342.36
8.0'	2.0'	876.70	192.58
10.0'	2.5'	561.1	123.25
20.0'	5.0'	140.3	30.81
30.0'	7.5'	62.3	13.69

LHABLDQ460C105UE-DUN-B20-T40/LRAQ41W (7000lm, 20°, 4000K)

System Power:	63.9W
Test Date:	5/24/2018
Beam Angle 50%:	21.1°
Field Angle 10%:	68.4°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	6950.8
CBCP:	22340
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

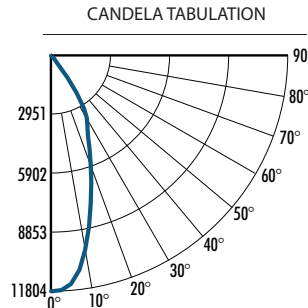
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	2.2'	620.56	150.76
8.0'	3.0'	349.06	84.80
10.0'	3.7'	223.4	54.27
18.0'	6.7'	69.0	16.75
24.0'	8.9'	38.8	9.42

LHABLDQ460C105UE-DUN-B40-T40/LRAQ41W (7000lm, 40°, 4000K)

System Power:	63.9W
Test Date:	5/24/2018
Beam Angle 50%:	38.6°
Field Angle 10%:	75.8°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	7660.1
CBCP:	11804
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

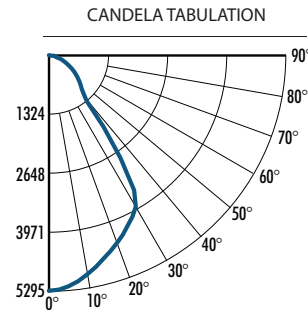
Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	4.2'	327.89	135.49
8.0'	5.6'	184.44	76.21
10.0'	7.0'	118.0	48.78
14.0'	9.8'	60.2	24.89
18.0'	12.6'	36.4	15.05

LHABLDQ460C105UE-DUN-B70-T40/LRAQ41W (7000lm, 70°, 4000K)

System Power:	63.9W
Test Date:	5/24/2018
Beam Angle 50%:	70.5°
Field Angle 10%:	123.9°
Color Temp. (CCT):	4000K
CRI :	80
Lumens Delivered:	7660.1
CBCP:	5295
Power Factor:	>0.90

MULTIPLIERS	
Lumen	CCT
7000lm : 2.13	4000K : 1.00
6000lm : 1.75	3500K : 0.99
5000lm : 1.46	3000K : 0.98
3500lm : 1.00	2700K : 0.94
2500lm : 0.73	
1500lm : 0.52	
1000lm : 0.37	
CRI	
80 CRI : 1.00	
90 CRI : 0.86	
97 CRI : 0.77	

Trim (Lensed): 0.75



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	Footcandle (FC)	
		Beam Center	Beam Edge
6.0'	8.5'	147.08	42.74
8.0'	11.3'	82.73	24.04
10.0'	14.1'	53.0	15.39
12.0'	17.0'	36.8	10.68
14.0'	19.8'	27.0	7.85