

# Architectural LED Retrofit Downlight



CLASSIFIED  
UL US  
E355621



**4inch Architectural LED Retrofit Downlight**  
14W/27W

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**6inch Architectural LED Retrofit Downlight**  
18W/23W/27W

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**8inch Architectural LED Retrofit Downlight**  
18W/23W/27W/33W/40W/54W/56W

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**10inch Architectural LED Retrofit Downlight**  
40W/54W

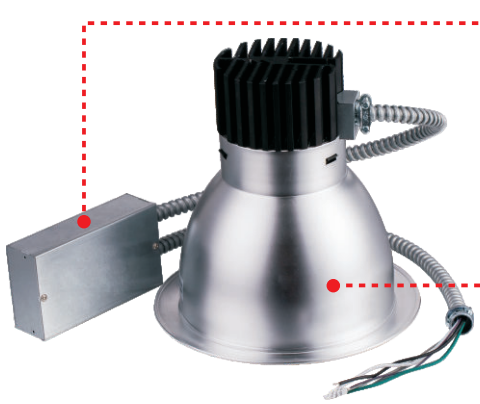
## Product description >>

The OKT Architectural LED Retrofit Downlights are suitable for 100~277 VAC Input with fire-rated Junction box, which delivers high lumens of exceptional 80+ CRI, Lifetime > 50000H while achieving maximum to 91LPW with 3000K, 3500K, 4000K, 5000K color temperatures options. The Retrofit Kits conversion for most manufacturers incandescent, CFL or H.I.D. fixtures. Easy conversion method and installation can be performed from below the ceiling without removing existing fixture. Ideal applications include office spaces, major retail stores, education, government, healthcare, and hospitality.

## Specification >>

Model	Item No.	Input Power	Luminous Flux	Input Voltage	Dimming Style	Certificate
4INCH 14W	C4-A14W-XXX	14Watts	890LM	120VAC	AC	UL,ES Pending
4INCH 27W	C4-A27W-XXX	27Watts	1670LM	120VAC	AC	UL,ES Pending
4INCH 14W	C4-14W-XXX	14Watts	930LM	100-277VAC	N/A	UL,ES Pending
4INCH 27W	C4-D27W-XXX	27Watts	1750LM	100-277VAC	DC	UL,ES Pending
6INCH 18W	C6-A18W-XXX	18Watts	1390LM	120VAC	AC	UL,ES Pending
6INCH 27W	C6-A27W-XXX	27Watts	1880LM	120VAC	AC	UL,ES Pending
6INCH 18W	C6-D18W-XXX	18Watts	1420LM	100-277VAC	DC	UL,Energy Star
6INCH 23W	C6-D23W-XXX	23Watts	1723LM	100-277VAC	DC	UL,Energy Star
6INCH 27W	C6-D27W-XXX	27Watts	1904LM	100-277VAC	DC	UL,Energy Star
8INCH 18W	C8-A18W-XXX	18Watts	1410LM	120VAC	AC	UL,ES Pending
8INCH 27W	C8-A27W-XXX	27Watts	1890LM	120VAC	AC	UL,ES Pending
8INCH 40W	C8-A40W-XXX	40Watts	2520LM	120VAC	AC	UL,ES Pending
8INCH 54W	C8-A54W-XXX	54Watts	3250LM	120VAC	AC	UL,ES Pending
8INCH 18W	C8-D18W-XXX	18Watts	1420LM	100-277VAC	DC	UL,Energy Star
8INCH 23W	C8-D23W-XXX	23Watts	1750LM	100-277VAC	DC	UL,Energy Star
8INCH 27W	C8-D27W-XXX	27Watts	1960LM	100-277VAC	DC	UL,Energy Star
8INCH 33W	C8-D33W-XXX	33Watts	2390LM	100-277VAC	DC	UL,Energy Star
8INCH 40W	C8-D40W-XXX	40Watts	2540LM	100-277VAC	DC	UL,Energy Star
8INCH 54W	C8-D54W-XXX	56Watts	3500LM	100-277VAC	DC	UL,ES Pending
10INCH 40W	C10-A40W-XXX	40Watts	2550LM	120VAC	AC	UL,ES Pending
10INCH 54W	C10-A54W-XXX	54Watts	3300LM	120VAC	AC	UL,ES Pending
10INCH 40W	C10-D40W-XXX	40Watts	2715LM	100-277VAC	DC	UL,ES Pending
10INCH 54W	C10-D54W-XXX	54Watts	3560LM	100-277VAC	DC	UL,ES Pending

# Features ▶▶



- THD<20%
- PF>0.9
- Fired-rated Junction Box
- UL Driver MTBF>500,000 Hours
- 0-10V Dimmable to Minimum 10%

- UL and cUL Listed, Energy Star Listed, LM79 Qualified
- Standard Lifetime: Designed minimum 50,000 hours
- 5 Years Warranty
- Mounting: Recessed
- Suitable for Damp locations

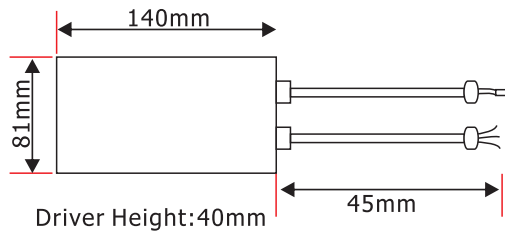
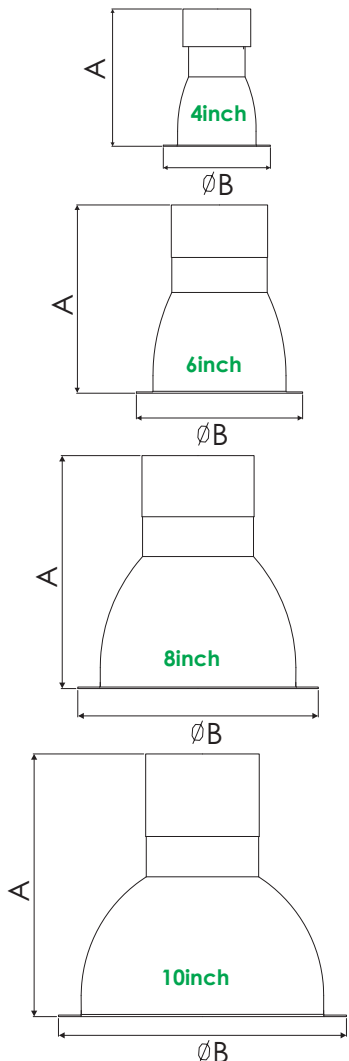
Excellent Efficacy achieve Maximum 91LPW  
 Adopt the CREE COB By Cree Truewhite Technology  
 ES CCT Options:3000K,3500K,4000K and 5000K

Fish scale shape design on interior surface prevent lighting glare

The reflector is made of metal material and with surface oxidized,which effectively enhances the lumen output ratio.



# Dimension ▶▶



Item NO:	A	B
C4-A14W-XXX	7.17"	5.59"
C4-A27W-XXX	7.17"	5.59"
C4-14W-XXX	7.17"	5.59"
C4-D27W-XXX	7.17"	5.59"
C6-A18W-XXX	7.68"	7.48"
C6-A27W-XXX	8.46"	7.48"
C6-D18W-XXX	7.68"	7.48"
C6-D23W-XXX	7.68"	7.48"
C6-D27W-XXX	8.46"	7.48"
C8-A18W-XXX	8.19"	9.29"
C8-A27W-XXX	8.98"	9.29"
C8-A40W-XXX	8.98"	9.29"
C8-A54W-XXX	9.76"	9.29"
C8-D18W-XXX	8.19"	9.29"
C8-D23W-XXX	8.19"	9.29"
C8-D27W-XXX	8.98"	9.29"
C8-D33W-XXX	8.98"	9.29"
C8-D40W-XXX	8.98"	9.29"
C8-D54W-XXX	9.76"	9.29"
C10-A40W-XXX	9.21"	10.98"
C10-A54W-XXX	10.00"	10.98"
C10-D40W-XXX	9.21"	10.98"
C10-D54W-XXX	10.00"	10.98"

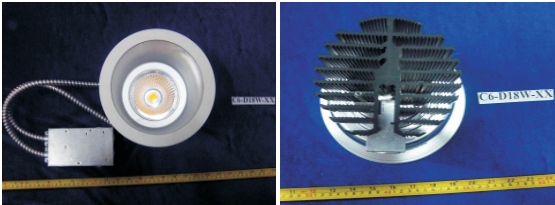


### IES LM-79-08

### MEASUREMENT AND TEST REPORT

Test Model: C6-D18W-XX

#### C6-D18W-XX



#### General Information:

One sample was received on 2013-05-10 and used for testing.

Model Tested: C6-D18W-XX

Product Designation: LED commercial downlight

Burning Time Before Test: 0 hours (for new products)

#### Rated Values:

Rated Voltage/Frequency: 100-277VAC 50/60Hz

Rated Power: 18W

Nominal CCT: 3000K

Tested By:

*Jack Zhou*

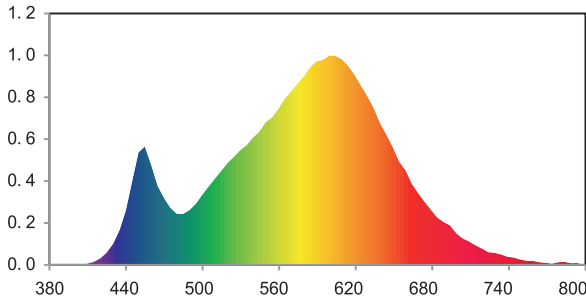
Jack Zhou

Reviewed By:

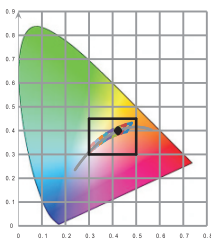
*Jeanne Han*

Jeanne Han

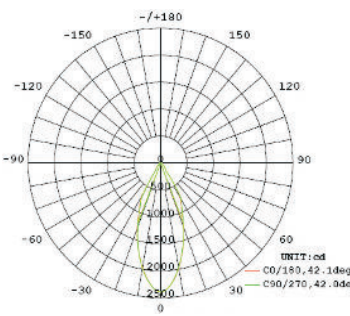
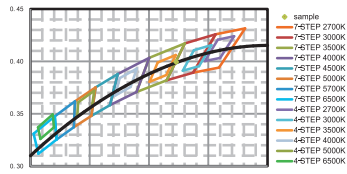
Relative Spectral Power Distribution



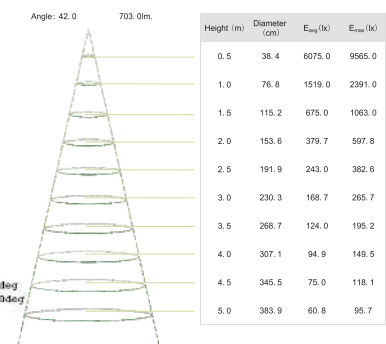
CIE 1931 x-y Chromaticity Diagram



7-Step & 48-Step Chromaticity Quadrangles



Average Area Illumination Figure



#### Electrical Measurement

Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Power Factor
119.9	60.0	0.1540	17.68	0.957

#### Photometric Measurement

Luminous Flux (lm)	Radiant Flux (W)	Efficacy (lm/W)	CCT(K)	Duv
1449.3	4.365	81.97	3213	2.50E-04

#### Chromaticity Coordinate

x	y	u	v	u'	v'
0.4229	0.3994	0.2435	0.3450	0.2435	0.5174

#### Color Rendering Index

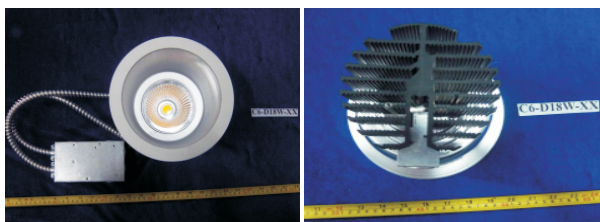
Ra 81.6			
R1 80	R2 90	R3 96	R4 79
R5 80	R6 87	R7 83	R8 59
R9 4	R10 76	R11 76	R12 67
R13 82	R14 98	R15 73	

# IES LM-79-08

## MEASUREMENT AND TEST REPORT

Test Model: C6-D23W-XX

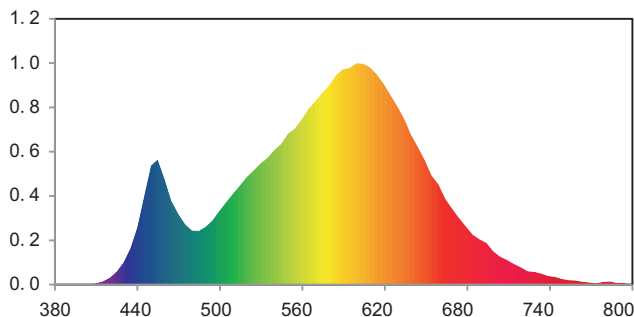
**C6-D23W-XX**



General Information:  
One sample was received on 2013-05-15 and used for testing.  
Model Tested: C6-D23W-XX

Burning Time Before Test 0 hours (for new products)

Relative Spectral Power Distribution



Rated Values:

Rated Voltage/Frequency: 100-277VAC 50/60Hz  
Rated Power: 23W  
Nominal CCT: 3000K

Tested By:

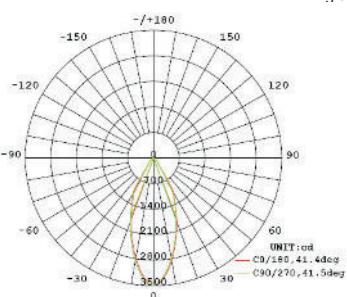
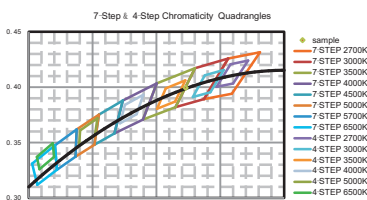
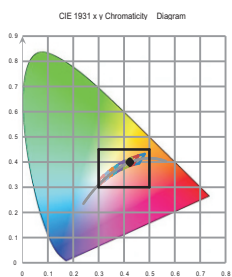
*Jack Zhou*

Jack Zhou

Reviewed By:

*Jeanne Han*

Jeanne Han



Angle: 41.5° Flux out: 1006.0lm

Height (m)	Diameter (cm)	E <sub>avg</sub> (lx)	E <sub>min</sub> (lx)
0.5	37.9	8689.0	13973.0
1.0	75.8	2172.0	3493.0
1.5	113.7	965.5	1553.0
2.0	151.6	543.1	873.3
2.5	189.4	347.6	558.9
3.0	227.3	241.4	388.1
3.5	265.2	177.3	285.2
4.0	303.1	135.8	218.3
4.5	341.0	107.3	172.5
5.0	378.9	86.9	139.7

Electrical Measurement

Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Power Factor
119.84	60.0	0.192	22.866	0.996

Color Rendering Index

Ra 81.6			
R1 80	R2 90	R3 96	R4 79
R5 80	R6 87	R7 83	R8 59
R9 4	R10 76	R11 76	R12 67
R13 82	R14 98	R15 73	

Photometric Measurement

Luminous Flux(lm)	Radiant Flux(W)	Efficacy(lm/W)	CCT(K)	Duv
2085.097	4.551	91.188	3197	-1.10E-03

Chromaticity Coordinate

x	y	u	v	u'	v'
0.4222	0.3959	0.2445	0.3439	0.2445	0.5159

# IES LM-79-08

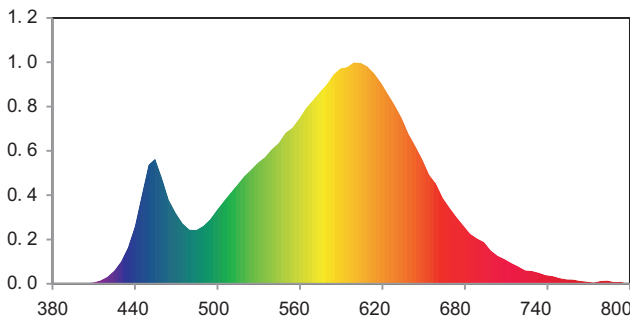
## MEASUREMENT AND TEST REPORT

Test Model: C6-D27W-XX

**C6-D27W-XX**



Relative Spectral Power Distribution



**General Information:**

One sample was received on 2013-05-19 and used for testing.  
Model Tested C6-D27W-XX

Product Designation: LED commercial downlight

Burning Time Before Test 0 hours (for new products)

**Rated Values:**

Rated Voltage/Frequency: 100-277VAC 50/60Hz

Rated Power: 27W

Nominal CCT: 3000K

Tested By:

*Jack Zhou*

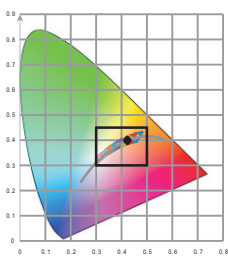
Jack Zhou

Reviewed By:

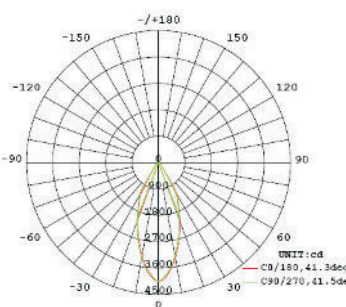
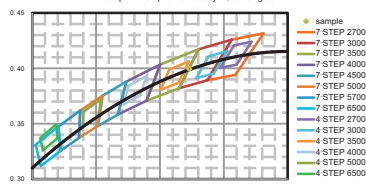
*Jeanne Han*

Jeanne Han

CIE 1931 x y Chromaticity Diagram



7-Step & 4-Step Chromaticity Quadrangles



Angle: 41.5°C Flux out: 1164.0lm

Height (m)	Diameter (cm)	E <sub>avg</sub> (lx)	E <sub>max</sub> (lx)
0.5	37.9	10060.0	16182.0
1.0	75.8	2515.0	4046.0
1.5	113.7	1118.0	1798.0
2.0	151.6	628.7	1011.0
2.5	189.4	402.4	647.3
3.0	227.3	279.4	449.5
3.5	265.2	205.3	330.3
4.0	303.1	157.2	252.9
4.5	341.0	124.2	199.8
5.0	378.9	100.6	161.8

**Electrical Measurement**

Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Power Factor
120.0	60.0	0.2327	27.41	0.982

**Photometric Measurement**

Luminous Flux(lm)	Radiant Flux(W)	Efficacy(lm/W)	CCT(K)	Duv
2384.7	7.097	86.97	3216	167.1E-03

**Chromaticity Coordinate**

x	y	u	v	u'	v'
0.4245	0.4035	0.2428	0.3462	0.2428	0.5193

**Color Rendering Index**

Ra			
80.9			
R1	R2	R3	R4
79	89	97	77
R5	R6	R7	R8
78	86	83	58
R9	R10	R11	R12
2	75	75	64
R13	R14	R15	
81	98	72	

**IES LM-79-08**

**MEASUREMENT AND TEST REPORT**

**Test Model: C8-D33W-XX**

**C8-D33W-XX**



**General Information:**

One sample was received on 2013-05-25 and used for testing.  
Model Tested C8-D33W-XX

Product Designation: LED commercial downlight  
Burning Time Before Test 0 hours (for new products)

**Rated Values:**

Rated Voltage/Frequency: 100-277VAC 50/60Hz  
Rated Power: 33W  
Nominal CCT: 3000K

**Tested By:**

*Jack Zhou*

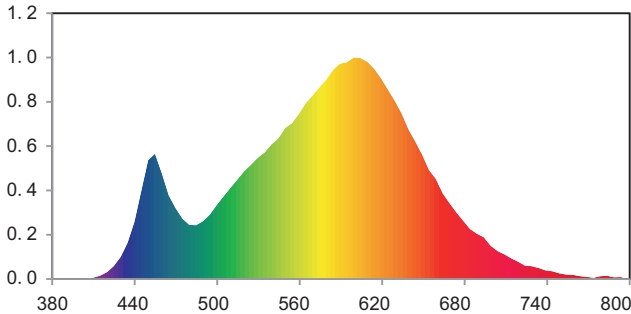
Jack Zhou

**Reviewed By:**

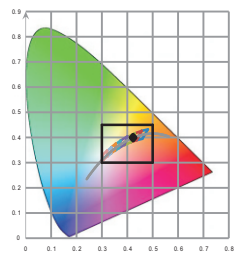
*Jeanne Han*

Jeanne Han

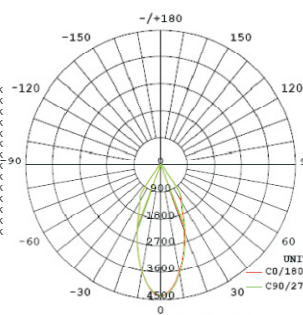
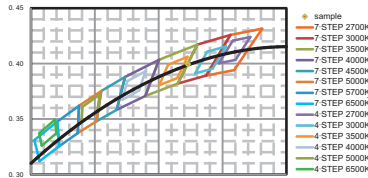
Relative Spectral Power Distribution



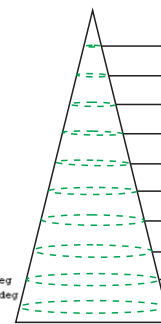
CIE 1931 x,y Chromaticity Diagram



7-Step & 4-Step Chromaticity Quadrangles



Angle: 42.2. Flux out: 1383.0lm



Height (m)	Diameter (cm)	E <sub>av</sub> (lx)	E <sub>min</sub> (lx)
0.5	38.6	10786.0	17545.0
1.0	77.2	2696.0	4386.0
1.5	115.8	1198.0	1949.0
2.0	154.4	674.1	1097.0
2.5	192.9	431.4	701.8
3.0	231.5	299.6	487.4
3.5	270.1	220.1	358.1
4.0	308.7	168.5	274.1
4.5	347.3	133.2	216.6
5.0	385.9	107.9	175.4

**Electrical Measurement**

Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Power Factor
120.0	60.0	0.2881	33.59	0.972

**Photometric Measurement**

Luminous Flux (lm)	Radiant Flux (W)	Efficacy (lm/W)	CCT (K)	Duv
2811.9	8.373	83.70	3201	1.51E -03

**Chromaticity Coordinate**

x	y	u	v	u'	v'
0.4245	0.4034	0.2434	0.3463	0.2434	0.5194

**Color Rendering Index**

Ra			
80.9			
R1	R2	R3	R4
79	90	97	77
R5	R6	R7	R8
78	86	83	58
R9	R10	R11	R12
2	75	75	65
R13	R14	R15	
81	98	72	

# IES LM-79-08

## MEASUREMENT AND TEST REPORT

Test Model: C8-D40W-XX

**C8-D40W-XX**



**General Information:**

One sample was received on 2013-05-25 and used for testing.  
Model Tested: C8-D40W-XX

Product Designation: LED commercial downlight

Burning Time Before Test: 0 hours (for new products)

**Rated Values:**

Rated Voltage/Frequency: 100-277VAC 50/60Hz  
Rated Power: 40W  
Nominal CCT: 3000K

Tested By:

*Jack Zhou*

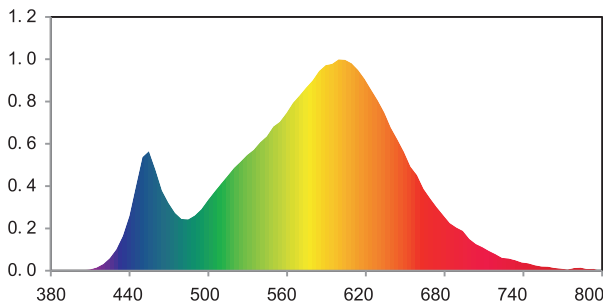
Jack Zhou

Reviewed By:

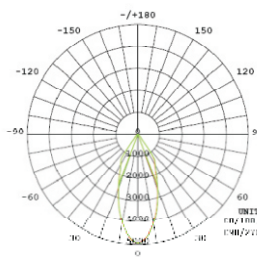
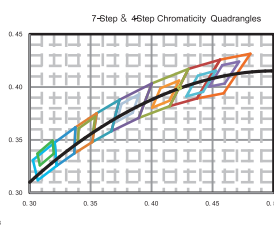
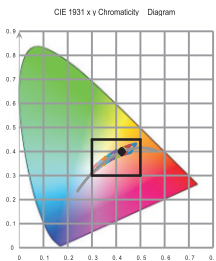
*Jeanne Han*

Jeanne Han

Relative Spectral Power Distribution



Angle: 42. 2: FLux out: 1558. 0lm



Height (m)	Diameter (cm)	E <sub>avg</sub> (lx)	E <sub>max</sub> (lx)
0.5	38.6	12150.0	19764.0
1.0	77.2	3038.0	4941.0
1.5	115.8	1350.0	2196.0
2.0	154.4	759.4	1235.0
2.5	192.9	486.0	790.6
3.0	231.5	337.5	549.0
3.5	270.1	248.0	403.3
4.0	308.7	189.8	308.8
4.5	347.3	150.0	244.0
5.0	385.9	121.5	197.6

**Electrical Measurement**

Voltage(V)	Frequency(Hz)	Current(A)	Power(W)	Power Factor
120.0	60.0	0.3463	40.62	0.977

**Color Rendering Index**

Ra 80.8			
R1 78	R2 89	R3 96	R4 77
R5 78	R6 86	R7 83	R8 58
R9 1	R10 75	R11 74	R12 65
R13 81	R14 98	R15 72	

**Photometric Measurement**

Luminous Flux (lm)	Radiant Flux (W)	Efficacy (lm/W)	CCT(K)	Duv
3180.2	9.462	78.28	3214	1.31E -03

**Chromaticity Coordinate**

x	y	u	v	u'	v'
0.4241	0.4024	0.2430	0.3495	0.2430	0.5188

LUMINAIRE GALARNEAU



## Order Information ▶▶

Category	Size	Function	Wattage	ES CCT(XX)
C=Commercial	4=4inch	D=0-10V Dimming A=120V Dimming	14W=14W	30=3000K
	6=6inch		18W=18W	35=3500K
	8=8inch		23W=23W	40=4000K
	10=10inch		27W=27W	50=5000K
			33W=33W	
			40W=40W	
			54W=54W	

## Projects ▶▶

