

# NC2-631 / NC2-636 / NC2-638

## 6" Sapphire II LED Reflectors

Source: 15W to 60W LED  
900lm to 4500lm

Type

Project

Catalog No.

Notes

### PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications. The reflectors have been designed for the high efficiency (LPW) while providing low aperture brightness. The Sapphire II COB Series is proudly assembled in the USA.

### FEATURES

- Cree® COB technology
- Shatter resistant lens
- Specifiable beam spreads
- 6" deep cone reflectors, wall wash and deco glass
- 900lm, 1500lm, 2500lm, 3500lm, and 4500lm LED packages
- 2700K, 3000K, 3500K and 4000K @ 90+ CRI
- 5-year limited warranty
- cULus listed for wet locations
- ENERGY STAR certified

### ELECTRICAL

**Lumens / Wattage:** L09 = 900lm / 15W; L15 = 1500lm / 18W; L25 = 2500lm / 30W; L35 = 3500lm / 46W; L45 = 4500lm / 60W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K

**CRI:** 90+CRI

**Beam Spread:** (S) 45° Spot, (M) 64° Narrow Flood, (F) 79° Flood

**Operating Temp.:** 0°C to 45°C ambient temperature

**Lifetime:** 60,000 hours @ L70

### COMPATIBLE FRAME-INS

Reflector is only compatible with respective Sapphire II series frames manufactured by Nora Lighting.

#### CATALOG NO. DESCRIPTION

NCAH2-630	6" Universal New Construction Frame-In
NCHR2-634	6" Remodel Frame-In

### DECO GLASS OPTIONS

NC2-638 is compatible with up to two decorative glass options, sold separately. Each glass includes mounting hardware (NRA-203).

**NTG-6B/120** 6" Tempered Blue Glass with 4-3/4" Open Center

**NTG-6B/80** 6" Tempered Blue Glass with 3-1/8" Open Center

**NTG-6CF** 6" Tempered Clear Glass with Frosted Center

**NTG-6FC** 6" Tempered Frosted Glass with Clear Center

**NTG-6HC** 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

### SPECIFICATION

**Reflector:** Deep cone self flanged reflector spun from 0.050 high grade aluminum provides even illumination and visual comfort. The deep cone reflectors provide 55+ degree cut-off. NC2-638 includes 3 studs mounted in the flange for attaching decorative glass. Decorative glass will reduce the amount of usable light by 10 to 30%, depending on the selected glass.

**Reflector Assembly:** The reflector assembly includes the LED optical package and heat sink mounted on top. Reflector assembly easily wires to dedicated frame with lockable quick connect.

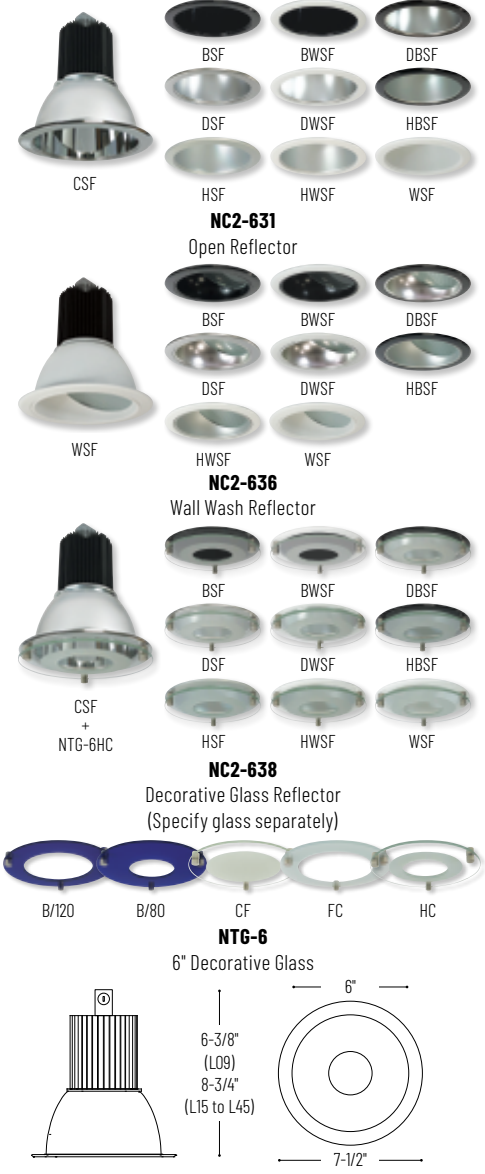
**Emergency:** NC2-631 is compatible with integral emergency test switch, must specify.

### LABELS AND LISTINGS

- cULus Listed for Wet Location when used with compatible frame-in
- ENERGY STAR certified
- 5-Year Limited Warranty
- RoHS Compliant



### PRODUCT IMAGES & DIMENSIONS



## 6" Sapphire II LED Reflectors - Dedicated Frame-In Required

Reflector Type	Lumens / Wattage	Color Temp.	Beam Spread	Reflector / Flange Finish	Optional Emergency
<b>NC2-631</b> = Open Reflector	<b>L09</b> = 900lm / 15W	<b>27</b> = 2700K	<b>S</b> = Spot	<b>BSF</b> = Black / Self Flanged	<b>EMI</b> = Integral emergency test switch (Compatible with NC2-631 only, must specify on frame-in)
<b>NC2-636</b> = Wall Wash <sup>1</sup>	<b>L15</b> = 1500lm / 18W	<b>30</b> = 3000K	<b>M</b> = Narrow Flood	<b>BWSF</b> = Black / White Flange	
<b>NC2-638</b> = Deco Glass <sup>*,1</sup>	<b>L25</b> = 2500lm / 30W	<b>35</b> = 3500K	<b>F</b> = Flood	<b>CSF</b> = Specular Clear / Self Flanged <sup>†</sup>	
	<b>L35</b> = 3500lm / 46W	<b>40</b> = 4000K		<b>DBSF</b> = Clear Diffused / Black Flange	
	<b>L45</b> = 4500lm / 60W			<b>DSF</b> = Clear Diffused / Self Flanged	
				<b>DWSF</b> = Clear Diffused / White Flange	
				<b>HBSF</b> = Haze / Black Flange	
				<b>HSF</b> = Haze / Self Flanged	
				<b>HWSF</b> = Haze / White Flange	
				<b>WSF</b> = White / Self Flanged	

### \* Deco Glass Option

<b>NTG-6B/120</b>	Tempered Blue Glass with 4-3/4" Open Center
<b>NTG-6B/80</b>	Tempered Blue Glass with 3-1/8" Open Center
<b>NTG-6CF</b>	Tempered Clear Glass with Frosted Center
<b>NTG-6FC</b>	Tempered Clear Glass with Clear Center
<b>NTG-6HC</b>	Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

Example: **NC2-631L2530WSF** = 6" Sapphire II Open Reflector, 2500lm / 30W LED, 3000K, Spot Beam Spread, White / Self Flange Finish

# NCAH2-630

## 6" Sapphire II New Construction Frame-In

Source: 15W to 60W LED  
900lm to 4500lm

Type

Project

Catalog No.

Notes

### PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications.

### CONSTRUCTION

**Plaster Frame:** Architectural quality 0.050 galvanized steel ring riveted to 0.064 steel junction box and driver tray. Plaster frame opening includes (3) "butterfly" spring clips to hold reflector assembly in place.

**Mounting:** Frame-in includes two adjustable bar hangers and universal brackets that accept flat bar hangers, C-Channel (ordered separately) or rigid 1/2" conduit. Adjustable hanger bars with captive nails, alignment foot, T-Bar slot are included on frame. Frame-in includes an adjustable deep ceiling collar that accommodates ceiling thickness from 1/2" to 2".

**Minimum Clearances:** Frames require a minimum of 3" from thermal insulation and 1/2" from adjacent building component.

**Junction Box:** Plaster frame integrated 29 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four pryouts, and snap on cover. Electrical connections are made through a single junction box door. Green wire provided for installations with ground wire fed through PVC pipe conduit. Junction box connects to reflector assembly with lockable quick connect.

**Thermal Protector:** LE3: External thermal device is located on the junction box; LE6: Thermally protected driver

**Driver:** Isolated driver separates the primary side from the secondary side.

### ELECTRICAL

**Input Voltage:** 120V or 120-277V

**Operating Temp.:** 0°C to 45°C ambient temperature

**Lumens / Wattage:** L09 = 900lm / 15W; L15 = 1500lm / 18W; L25 = 2500lm / 30W; L35 = 3500lm / 46W; L45 = 4500lm / 60W

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### COMPATIBLE REFLECTORS

CATALOG NO.	DESCRIPTION
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NC2-631	6" Open Reflector
NC2-636	6" Wall Wash Reflector
NC2-638	6" Decorative Glass Reflector

### Emergency LED Driver

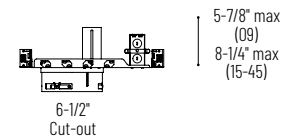
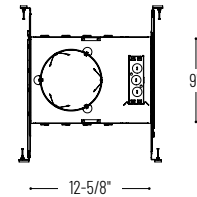
- Up to 7.5W emergency illumination with LEDs.
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- Available with remote or integral test switch, must specify

### LABELS AND LISTINGS

- cULus Listed for Damp Location (Wet Location when used with compatible reflector)
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Emergency LED Driver meets Title 20 CEC efficiency standards



### PRODUCT IMAGES AND DIMENSIONS



## 6" Sapphire II New Construction Frame-In - Compatible with Sapphire II Reflectors

Lumens / Wattage	Driver	Optional Emergency
NCAH2-630/09 = 900lm / 15W	LE3 = 120V Input; Triac/ELV0-10V dimming	EM = Emergency Pack w/ Remote Test Switch
NCAH2-630/15 = 1500lm / 18W	LE6 = 120-277V Input; 0-10V dimming	EMI = Emergency Pack w/ Integral Test Switch, must specify on reflector
NCAH2-630/25 = 2500lm / 30W		
NCAH2-630/35 = 3500lm / 46W		
NCAH2-630/45 = 4500lm / 60W		

Example: NCAH2-630/25LE6EM = 6" Sapphire II Universal New Construction Frame-In, 2500lm / 30W, 120-277V Input, Emergency with Remote Test Switch

# NCHR2-634

6" Sapphire II Remodel Frame-In

Source: 15W to 60W LED  
900lm to 4500lm

Type	
Project	
Catalog No.	
Notes	

## PRODUCT DESCRIPTION

The Sapphire II COB Series is an architectural grade LED high lumen downlight. The Sapphire II uses the latest COB technology by Cree®. The COB allows for better optic control offering 3 beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications.

## CONSTRUCTION

**Plaster Frame:** Architectural quality 0.050 galvanized steel ring riveted to 0.064 steel junction box and driver tray. Remodel frame opening includes (3) "butterfly" spring clips to hold reflector assembly in place.

**Mounting:** Designed for installation in existing ceilings. Three high tension tempered steel springs secure remodel housings evenly to the ceiling; hole cutout template provided for convenience. Remodel frame-in accommodates ceiling thickness from 1/2" to 1-1/4".

**Minimum Clearances:** Frames require a minimum of 3" from thermal insulation and 1/2" from adjacent building component.

**Junction Box:** Plaster frame integrated 29 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four pryouts, and snap on cover. Electrical connections are made through a single junction box door. Green wire provided for installations with ground wire fed through PVC pipe conduit. Junction box connects to reflector assembly with lockable quick connect.

**Thermal Protector:** LE3: External thermal device is located on the junction box; LE6: Thermally protected driver

**Driver:** Isolated driver separates the primary side from the secondary side.

## ELECTRICAL

**Input Voltage:** 120V or 120-277V

**Lumens / Wattage:** L09 = 900lm / 15W; L15 = 1500lm / 18W; L25 = 2500lm / 30W; L35 = 3500lm / 46W; L45 = 4500lm / 60W

**Operating Temp.:** 0°C to 45°C ambient temperature

**Dimming:** Triac, ELV or 0-10V dimming

[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

## COMPATIBLE REFLECTORS

CATALOG NO.	DESCRIPTION
NC2-631	6" Open Reflector
NC2-636	6" Wall Wash Reflector
NC2-638	6" Decorative Glass Reflector

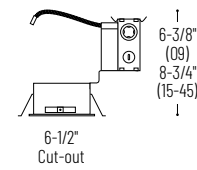
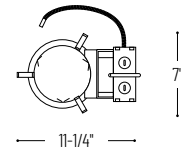
**Emergency:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

## LABELS AND LISTINGS

- cULus Listed for Damp Location (Wet Location when used with compatible reflector)
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Emergency LED Driver meets Title 20 CEC efficiency standards



## PRODUCT IMAGES AND DIMENSIONS



## 6" Sapphire II Remodel Frame-In - Compatible with Sapphire II Reflectors

Lumens / Wattage	Driver
<b>NCHR2-634/09</b> = 900lm / 15W	<b>LE3</b> = 120V Input; Triac/ELV0-10V dimming
<b>NCHR2-634/15</b> = 1500lm / 18W	<b>LE6</b> = 120-277V Input; 0-10V dimming
<b>NCHR2-634/25</b> = 2500lm / 30W	
<b>NCHR2-634/35</b> = 3500lm / 46W	
<b>NCHR2-634/45</b> = 4500lm / 60W	

## Optional Accessories

Description
<b>NEPK-07LEDUNV</b> = Remote Emergency Battery w/Test Switch

Example: **NCHR2-634/15LE6** = 6" Sapphire II LED Remodel Frame-In, 1500lm / 18W, 120-277V Input

# PHOTOMETRICS

6" Sapphire II Series  
900lm

Type

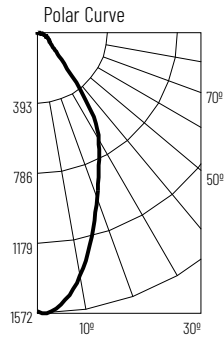
Project

Catalog No.

Notes

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L0940SWSF  
Part Number: 35° Spot  
Lumens: 1113lm  
Wattage: 14.89W  
Efficacy: 75lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.56  
Spacing Criteria (90°-270): 0.54



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	95.2fc	2'-7"
6'	42.3fc	3'-11"
8'	23.8fc	5'-2"
10'	15.2fc	6'-6"
12'	10.6fc	7'-10"

## Zonal Lumen Summary

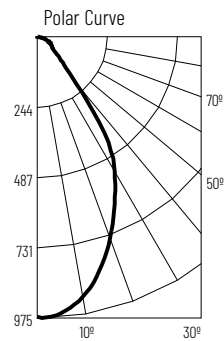
Zone	Lumens	% Luminaire
0-30	637	57.2
0-40	869	78.1
0-60	1019	91.6
0-90	1106	99.4
90-180	7	0.6
0-180	1113	100

## Candela Table

Vertical Angles	Candela
0	1522
5	1421
15	868
25	595
35	401
45	114

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L0940MWSF  
Part Number: 65° Narrow Flood  
Lumens: 1114lm  
Wattage: 14.86W  
Efficacy: 75lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	60.7fc	5'-1"
6'	27fc	7'-8"
8'	15.2fc	10'-2"
10'	9.7fc	12'-10"
12'	6.8fc	15'-4"

## Zonal Lumen Summary

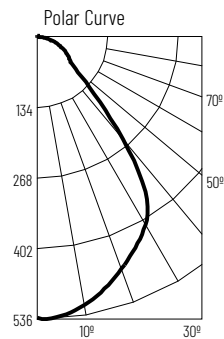
Zone	Lumens	% Luminaire
0-30	607	54.5
0-40	855	76.8
0-60	1019	91.4
0-90	1108	99.4
90-180	7	0.6
0-180	1114	100

## Candela Table

Vertical Angles	Candela
0	972
5	955
15	825
25	627
35	426
45	128

## Test Information

Test Number: NTR1321  
Part Number: NC2-631L0940FWSF  
Part Number: 79° Flood  
Lumens: 898lm  
Wattage: 15.02W  
Efficacy: 60lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 1.16  
Spacing Criteria (90°-270): 1.16



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	33.3fc	6'-6"
6'	14.8fc	9'-10"
8'	8.3fc	13'-1"
10'	5.3fc	16'-4"
12'	3.7fc	19'-7"

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	390	43.4
0-40	605	67.4
0-60	795	88.5
0-90	891	99.3
90-180	7	0.7
0-180	898	100

## Candela Table

Vertical Angles	Candela
0	533
5	527
15	491
25	436
35	354
45	154

## Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

# PHOTOMETRICS

6" Sapphire II Series  
1500lm

Type

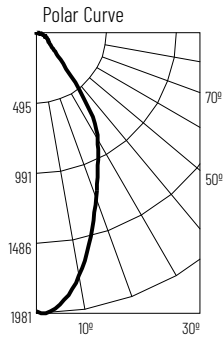
Project

Catalog No.

Notes

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L1540SWF  
Part Number: 42° Spot  
Lumens: 1561lm  
Wattage: 16.78W  
Efficacy: 93lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.64  
Spacing Criteria (90°-270): 0.66



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	54.1fc	4'-6"
9'	24fc	6'-10"
12'	13.5fc	9'-1"
15'	8.7fc	11'-5"
18'	6fc	13'-7"

## Zonal Lumen Summary

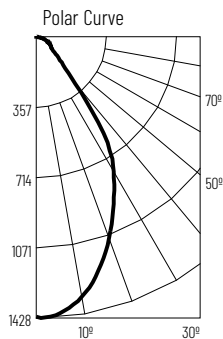
Zone	Lumens	% Luminaire
0-30	904	57.9
0-40	1213	77.7
0-60	1435	91.9
0-90	1550	99.3
90-180	11	0.7
0-180	1561	100

## Candela Table

Vertical Angles	Candela
0	1946
5	1844
15	1234
25	832
35	504
45	159

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L1540MWSF  
Part Number: 63° Narrow Flood  
Lumens: 1566lm  
Wattage: 16.92W  
Efficacy: 93lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.9  
Spacing Criteria (90°-270): 0.9



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	39.4fc	7'-5"
9'	17.5fc	11'-1"
12'	9.9fc	14'-8"
15'	6.3fc	18'-5"
18'	4.4fc	22'-1"

## Zonal Lumen Summary

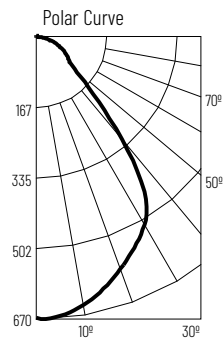
Zone	Lumens	% Luminaire
0-30	877	56
0-40	1216	77.6
0-60	1439	91.9
0-90	1556	99.4
90-180	10	0.6
0-180	1566	100

## Candela Table

Vertical Angles	Candela
0	1420
5	1402
15	1206
25	895
35	572
45	176

## Test Information

Test Number: NTR11321  
Part Number: NC2-631L1540FWSF  
Part Number: 79° Flood  
Lumens: 1132lm  
Wattage: 15.04W  
Efficacy: 75lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 1.16  
Spacing Criteria (90°-270): 1.16



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	18.5fc	9'-11"
9'	8.2fc	14'-10"
12'	4.6fc	19'-8"
15'	3fc	24'-7"
18'	2.1fc	29'-7"

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	490	43.3
0-40	756	66.7
0-60	1005	88.8
0-90	1124	99.3
90-180	8	0.7
0-180	1132	100

## Candela Table

Vertical Angles	Candela
0	667
5	662
15	618
25	551
35	436
45	202

## Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

# PHOTOMETRICS

6" Sapphire II Series  
2500lm

Type

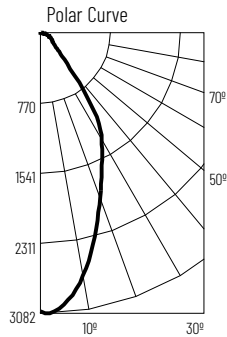
Project

Catalog No.

Notes

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L2540SWSF  
Part Number: 40° Spot  
Lumens: 2367lm  
Wattage: 28.8W  
Efficacy: 82lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.62  
Spacing Criteria (90°-270): 0.62



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	84.5fc	4'-5"
9'	37.6fc	6'-7"
12'	21.1fc	8'-8"
15'	13.5fc	10'-11"
18'	9.4fc	13'-1"

## Zonal Lumen Summary

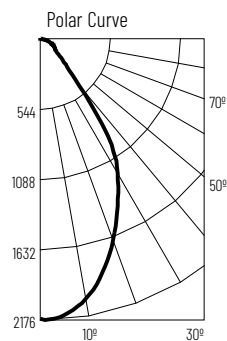
Zone	Lumens	% Luminaire
0-30	1371	57.9
0-40	1860	78.6
0-60	2170	91.7
0-90	2350	99.3
90-180	17	0.7
0-180	2367	100

## Candela Table

Vertical Angles	Candela
0	3043
5	2842
15	1879
25	1271
35	836
45	233

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L2540MWSF  
Part Number: 63° Narrow Flood  
Lumens: 2408lm  
Wattage: 29.04W  
Efficacy: 83lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.9  
Spacing Criteria (90°-270): 0.9



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	60.4fc	7'-5"
9'	26.8fc	11'
12'	15.1fc	14'-8"
15'	9.7fc	18'-5"
18'	6.7fc	22'-1"

## Zonal Lumen Summary

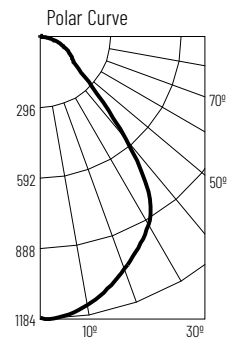
Zone	Lumens	% Luminaire
0-30	1345	55.8
0-40	1867	77.5
0-60	2207	91.7
0-90	2390	99.3
90-180	18	0.7
0-180	2408	100

## Candela Table

Vertical Angles	Candela
0	2173
5	2137
15	1837
25	1371
35	889
45	269

## Test Information

Test Number: NTR1321  
Part Number: NC2-631L2540FWSF  
Part Number: 79° Flood  
Lumens: 2004lm  
Wattage: 29.24W  
Efficacy: 69lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 1.16  
Spacing Criteria (90°-270): 1.16



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	32.8fc	9'-10"
9'	14.6fc	14'-8"
12'	8.2fc	19'-7"
15'	5.3fc	24'-7"
18'	3.6fc	29'-6"

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	867	43.3
0-40	1336	66.7
0-60	1780	88.8
0-90	1989	99.3
90-180	14	0.7
0-180	2004	100

## Candela Table

Vertical Angles	Candela
0	1181
5	1171
15	1094
25	976
35	779
45	349

## Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

# PHOTOMETRICS

6" Sapphire II Series  
3500lm

Type

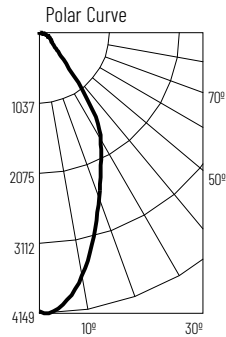
Project

Catalog No.

Notes

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L3540SWSF  
Part Number: 51° Spot  
Lumens: 3775lm  
Wattage: 43.71W  
Efficacy: 86lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.76  
Spacing Criteria (90°-270): 0.76



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	115fc	5'-10"
9'	51fc	8'-8"
12'	28.7fc	11'-7"
15'	18.3fc	14'-6"
18'	12.7fc	17'-5"

## Zonal Lumen Summary

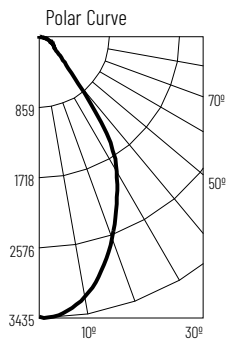
Zone	Lumens	% Luminaire
0-30	2200	58.3
0-40	2960	78.4
0-60	3450	91.4
0-90	3732	98.9
90-180	43	1.1
0-180	3775	100

## Candela Table

Vertical Angles	Candela
0	4128
5	4010
15	3069
25	2125
35	1262
45	366

## Test Information

Test Number: NTR1335  
Part Number: NC2-631L3540MWSF  
Part Number: 64° Narrow Flood  
Lumens: 3844lm  
Wattage: 43.49W  
Efficacy: 88lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	95fc	7'-6"
9'	42.2fc	11'-4"
12'	23.8fc	15'
15'	15.2fc	18'-10"
18'	10.6fc	22'-6"

## Zonal Lumen Summary

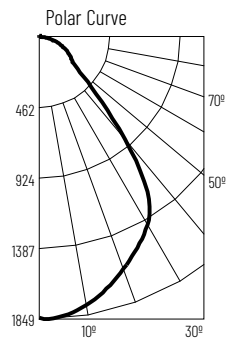
Zone	Lumens	% Luminaire
0-30	2157	56.1
0-40	2988	77.7
0-60	3526	91.7
0-90	3815	99.2
90-180	29	0.8
0-180	3844	100

## Candela Table

Vertical Angles	Candela
0	3421
5	3374
15	2947
25	2226
35	1400
45	426

## Test Information

Test Number: NTR1321  
Part Number: NC2-631L3540FWSF  
Part Number: 79° Flood  
Lumens: 3127lm  
Wattage: 43.27W  
Efficacy: 72lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 1.16  
Spacing Criteria (90°-270): 1.16



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	51.3fc	9'-11"
9'	22.8fc	14'-10"
12'	12.8fc	19'-8"
15'	8.2fc	24'-8"
18'	5.7fc	29'-7"

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1357	43.4
0-40	2107	67.4
0-60	2777	88.8
0-90	3104	99.3
90-180	23	0.7
0-180	3127	100

## Candela Table

Vertical Angles	Candela
0	1847
5	1832
15	1710
25	1525
35	1240
45	546

## Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)

# PHOTOMETRICS

6" Sapphire II Series  
4500lm

Type

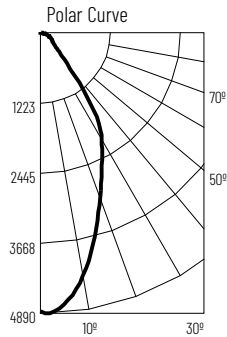
Project

Catalog No.

Notes

## Test Information

Test Number: 727461  
Part Number: NC2-631L4540SWSF  
Part Number: 52° Spot  
Lumens: 4585lm  
Wattage: 56.2W  
Efficacy: 82lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.76  
Spacing Criteria (90°-270): 0.76



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	135fc	5'-11"
9'	60fc	8'-10"
12'	33.8fc	11'-8"
15'	21.6fc	14'-8"
18'	15fc	17'-7"

## Zonal Lumen Summary

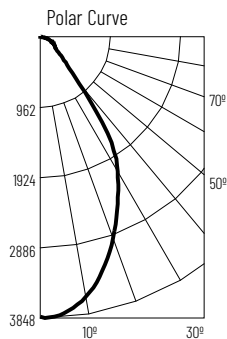
Zone	Lumens	% Luminaire
0-30	2624	57.2
0-40	3579	78.1
0-60	4198	91.6
0-90	4549	99.2
90-180	36	0.8
0-180	4585	100

## Candela Table

Vertical Angles	Candela
0	4861
5	4724
15	3654
25	2535
35	1597
45	462

## Test Information

Test Number: 727477  
Part Number: NC2-631L4540MWSF  
Part Number: 64° Narrow Flood  
Lumens: 4395lm  
Wattage: 55.5W  
Efficacy: 79lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 0.92  
Spacing Criteria (90°-270): 0.92



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	106fc	7'-7"
9'	47.3fc	11'-4"
12'	26.6fc	15'-1"
15'	17fc	18'-11"
18'	11.8fc	22'-8"

## Zonal Lumen Summary

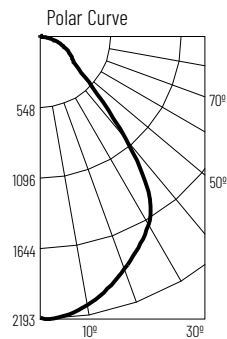
Zone	Lumens	% Luminaire
0-30	2429	55.3
0-40	3387	77.1
0-60	4021	91.5
0-90	4361	99.2
90-180	34.43	0.8
0-180	4395	100

## Candela Table

Vertical Angles	Candela
0	3833
5	3769
15	3296
25	2587
35	1596
45	500

## Test Information

Test Number: 727489  
Part Number: NC2-631L4540FWSF  
Part Number: 79° Flood  
Lumens: 3687lm  
Wattage: 56.5W  
Efficacy: 65lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180): 1.16  
Spacing Criteria (90°-270): 1.16



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	60.6fc	9'-10"
9'	26.9fc	14'-10"
12'	15.2fc	19'-8"
15'	9.7fc	24'-7"
18'	6.7fc	29'-6"

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1602	43.5
0-40	2487	67.4
0-60	3274	88.8
0-90	3659	99.2
90-180	28	0.8
0-180	3687	100

## Candela Table

Vertical Angles	Candela
0	2182
5	2164
15	2018
25	1799
35	1454
45	643

## Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.91), 3500K (0.96), 4000K (1.00)