

# NQZ-81TWTW-MPW

8" Quartz LED Downlight with Selectable Lumens & Selectable CCT

Source: 20W to 35W LED  
1750lm to 2950lm

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

Quartz Series series is an architectural and commercial grade LED high lumen downlight. Each luminaire includes two tunable switches; Selectable Lumens allows the end user to determine the wattage input & Selectable CCT allows for changing the color temperature appearance. Reflectors include two tension steel spring clips, which allow the luminaires to install without any frame-in or housing for an easy installation.

## FEATURES

- Can-less installation (No frame-in or housing required)
- Easy installation for retrofit, remodel or new construction applications
- Selectable Lumen switch changes output from 1750lm to 2950lm
- Selectable CCT switch changes color temperature from 3000K / 3500K / 4000K
- Field changeable reflector allows for easy customization
- 120-277V input and 0-10V dimming
- 5-year limited warranty
- ENERGY STAR certified
- cULus Listed for Wet Locations

## SPECIFICATION

**Reflector:** Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Each reflector comes standard with matte powder white finish, optional haze and diffused snap-in reflectors are available and field changeable.

**Tunable Switches:** Each luminaire includes two switches on the top of the driver enclosure. Selectable Lumen switch changes the lumen output and wattage. Selectable CCT switch changes the color temperature.

**Minimum Clearances:** Non-IC luminaire requires a minimum clearance of 3" from thermal insulation and 1/2" from adjacent building components.

**Mounting:** Pre-wired 4" junction box with through branch circuit wiring (3 in / 3 out). No housing is required, two tensions steel spring clips accommodate ceiling thickness from 1/2" to 1-1/2". New construction frame-in ([NQZ-8R-F](#)) and oversize ring ([NQZ-8OR-MPW](#)) accessories are available.

## ELECTRICAL

**Input Voltage:** 120-277V

**Lumens / Wattage:** Selectable Lumens: 1750lm / 20W, 2100lm / 25W, 2600lm / 30W and 2950lm / 35W

**Beam Spread:** 89° Wide Flood

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

**Color Rendering Index:** 90+ CRI

**Operating Temperature:** 0°C - 45°C (0°C-35°C with emergency option)

**Lifetime:** 50,000 hours @ L70

**Dimming:** Dimmable down to 10% with 0-10V dimmer

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

**Optional Emergency:** Luminaire includes pre-wired 120-277V emergency battery with remote test switch. Battery operates luminaire at 7W for 90 minute emergency operation with a fully charged battery.

## LABELS AND LISTINGS

- cULus Listed for Wet Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- FCC compliant

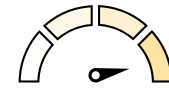


## Performance Data

CCT	20W	25W	30W	35W
<b>3000K</b>	1728lm	2091lm	2502lm	2810lm
<b>3500K</b>	1751lm	2143lm	2639lm	2960lm
<b>4000K</b>	1662lm	2011lm	2425lm	2742lm

*Delivered lumens will vary depending on finish*

## PRODUCT IMAGES AND DIMENSIONS



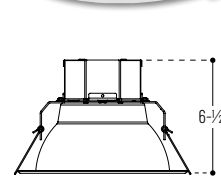
Selectable Lumens

Four position sliding switch  
1750lm / 2100lm / 2600lm / 2950lm

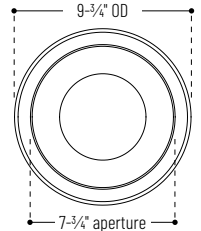


Selectable CCT

Three position sliding switch  
3000K / 3500K / 4000K



Ceiling Cut-Out: 7-7/8" Ø



**NQZ-81TWTW-MPW / NQZ-81REFLC**  
8" Quartz with Specular Reflector



**NQZ-81TWTW-MPW / NQZ-81REFLD**  
8" Quartz with Diffused Clear Reflector



**NQZ-81TWTW-MPW / NQZ-81REFLHZ**  
8" Quartz with Haze Reflector

## 8" Quartz LED Downlight with Selectable Lumens & Selectable CCT

Reflector Type	Lumens / Wattage / Color Temperature	Reflector / Flange Finish	Optional Emergency
<b>NQZ-81</b> = 8" Open Reflector	<b>TWTW</b> = 1750lm / 2100lm / 2600lm / 2950lm 3000K / 3500K / 4000K	<b>-MPW</b> = Matte Powder White	<b>EM</b> = Emergency with Remote Test Switch

## Optional Accessories

Description
<b>NQZ-8OR-MPW</b> = 8" Oversize Ring, Matte Powder White
<b>NQZ-8R-F</b> = 8" New Construction Frame-In
<b>NQZ-81REFLC</b> = 8" Specular Clear Snap-in Reflector
<b>NQZ-81REFLD</b> = 8" Diffused Clear Snap-in Reflector
<b>NQZ-81REFLHZ</b> = 8" Haze Snap-in Reflector

Example: **NQZ-81TWTWMPW** = 8" Quartz LED Downlight with Selectable Lumens & Selectable CCT, Matte Powder White

# NQZ-81WTW-MPW

8" Quartz LED Downlight Accessories

Type	_____
Project	_____
Catalog No.	_____
Notes	_____



Oversize Ring

**NQZ-80R-MPW**

Oversize ring covers ceiling cut-outs up to 10"



New Construction Frame-In Kit

**NQZ-8R-F**

For new construction pre-wiring and easier layout planning.



Specular Clear Reflector

**NQZ-81REFLC**

Snap-in reflector is field changeable and fits over 8" Quartz reflector.



Diffused Clear Reflector

**NQZ-81REFLD**

Snap-in reflector is field changeable and fits over 8" Quartz reflector.



Haze Reflector

**NQZ-81REFLHZ**

Snap-in reflector is field changeable and fits over 8" Quartz reflector.

# PHOTOMETRICS

## 8" Quartz LED Downlight with Selectable Lumens & Selectable CCT

Type

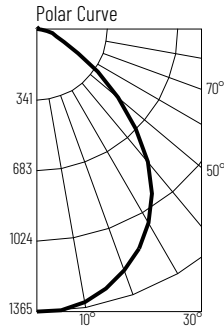
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1237  
 Part Number: NQZ-81TWTW-MPW  
 Beam Spread: 90° Wide Flood  
 Lumens: 2810lm  
 Wattage: 36.03W  
 Efficacy: 78lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.2  
 Spacing Criteria (90°-270°): 1.18



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	85.3fc	8'-1"
6'	37.9fc	12'-2"
8'	21.3fc	16'-2"
10'	13.7fc	20'-4"
12'	9.5fc	24'-4"

### Zonal Lumen Summary

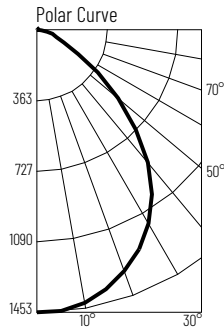
Zone	Lumens	% Luminaire
0-30	1031	36.7
0-40	1638	58.3
0-60	2499	88.9
0-90	2773	98.7
90-180	38	1.3
0-180	2810	100

### Candela Table

Vertical Angles	Candela
0	1365
5	1360
15	1296
25	1170
35	978
45	695

### Test Information

Test Number: NTR1238  
 Part Number: NQZ-81TWTW-MPW  
 Beam Spread: 89° Wide Flood  
 Lumens: 2960lm  
 Wattage: 34.81W  
 Efficacy: 85lpw  
 CCT / CRI: 3500K / 90 CRI  
 Spacing Criteria (0°-180°): 1.2  
 Spacing Criteria (90°-270°): 1.18



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	90.8fc	8'
6'	40.4fc	12'
8'	22.7fc	16'
10'	14.5fc	19'-11"
12'	10.1fc	23'-11"

### Zonal Lumen Summary

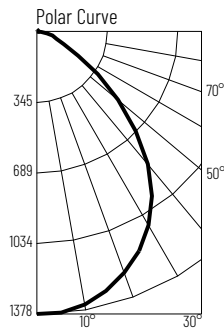
Zone	Lumens	% Luminaire
0-30	1097	37.1
0-40	1737	58.7
0-60	2639	89.2
0-90	2924	98.8
90-180	37	1.2
0-180	2960	100

### Candela Table

Vertical Angles	Candela
0	1453
5	1451
15	1382
25	1245
35	1034
45	724

### Test Information

Test Number: NTR1239  
 Part Number: NQZ-81TWTW-MPW  
 Beam Spread: 88° Wide Flood  
 Lumens: 2742lm  
 Wattage: 33.17W  
 Efficacy: 83lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.18  
 Spacing Criteria (90°-270°): 1.18



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	86.1fc	7'-8"
6'	38.3fc	11'-7"
8'	21.5fc	15'-6"
10'	13.8fc	19'-4"
12'	9.6fc	23'-2"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1036	37.8
0-40	1634	59.6
0-60	2456	89.5
0-90	2709	98.8
90-180	34	1.2
0-180	2742	100

### Candela Table

Vertical Angles	Candela
0	1378
5	1371
15	1304
25	1172
35	962
45	657