NLCBC2-55 Series

5" Cobalt Click LED Retrofit Reflectors
Source: 10W or 12W LED
750lm or 1000lm

Type
Project
Catalog No.
Notes

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The 5" retrofit click luminaires product up to 1000 lumen output at 90+ CRI. The Cobalt series integrates an array of LEDs, giving bright spectacular light output and low power consumption.

SPECIFICATION

Trim: UTM thermal management features an integral driver, large heat sink and the latest LED technology. The patented "Click" system allows the aluminum spun trims to be easily changed in the field with the help of spring mounting clips which properly secure them to the LED module.

Mounting: Two steel, spring mounting blades allow for easy and secure mounting in most 5" housings.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings.

ELECTRICAL

Input Voltage: 120V or 120V-277V, must specify
Lumens / Wattage: See chart below

LED Module	Lumens / Wattage	Color Temperature
Dedicated CCT	750lm / 10W or 1000lm / 12W	2700K, 3000K, 3500K, 4000K
Selectable CCT	1000lm / 13.5W	2700K, 3000K, 3500K, 4000K, 5000K
Comfort Dim	900lm / 12W	3000K to 2000K

Color Temperature: Dedicated, Selectable or Comfort Dim
Color Rendering Index: 90+ CRI
Operating Temperature: 0-35°C
Lifetime:
36,000 hours @ L70 (Selectable CCT)
50,000 hours @ L70 (Dedicated CCT & Comfort Dim)
Comfort Dim: Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 900lm / 12W /120V only.
Dimming: Available in Triac/ELV/0-10V, must specify
Click Here or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 5" IC and Non-IC housings by Nora and others.

Fire Box

NFBIC-5LMRATA*	ICAT Dedicated LED
NFBIC-5LMRATA/4W*	ICAT Dedicated LED for LE4
NFBIC-5INCATA	ICAT Line Voltage

New Construction

NHIC-527LMRAT*	Shallow ICAT Dedicated LED
NHIC-5LMRAT*	ICAT Dedicated LED
NHIC-5LMRAT/4W*	ICAT Dedicated LED for LE4
NHIC-5LMRAT/EM*	ICAT Dedicated LED w/EM
NHIC-5LMRAT/6WEM*	ICAT Dedicated LED w/EM+LE4
NHIC-527QAT	Shallow ICAT Line Voltage
NHIC-5010AT	ICAT Line Voltage

Remodel

NHRIC-527LMRAT*	Shallow ICAT Dedicated LED
NHRIC-5LMRAT*	ICAT Dedicated LED
NHRIC-5LMRAT/4W*	ICAT Dedicated LED for LE4
NHRIC-527QAT	Shallow ICAT Line Voltage
NHRIC-5040AT	ICAT Line Voltage

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

ACCESSORIES

NLCBC-5EYELID: Round eyelid for reflector or baffle
NLCBC-50R: Round oversize ring for holes up to 7"
NEPK-23LEDUNV: 23W Emergency with Remote Test Switch
NEPKA-20/23LEDRTS: Ribbon Test Switch for NEPK-23LEDUNV

Emergency:
Selectable CCT is compatible with NEPK-23LEDUNV (ordered separately).
Dedicated CCT and Comfort Dim require a housing with EM.

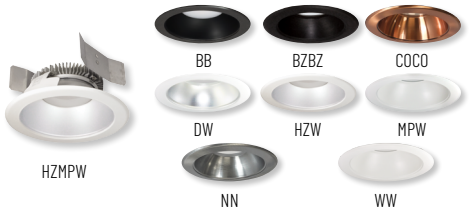
LABELS AND LISTINGS

- cULus classified for Wet Locations
- 5-Year Limited Warranty
- Airtight in accordance to ASTM E283
- FCC Compliant
- Certified to the requirements of CA Title 24 JA8-2025
- **Patented** (noralighting.com/patents)

TRIM FINISHES

	BB	BW	BZBZ	COCO	DW	HZW	MPW	NN	WW
551	•		•	•	•	•	•	•	•
552	•		•				•	•	•
553			•		•	•	•		•
556	•	•	•			•	•	•	•

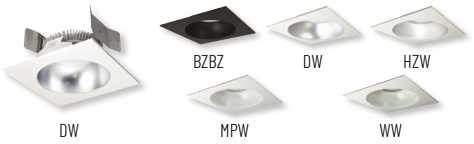
PRODUCT IMAGES & DIMENSIONS



NLCBC2-551
Round Reflector



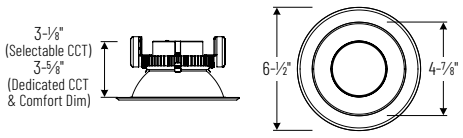
NLCBC2-552
Round Baffle



NLCBC2-553
Square Reflector with Round Aperture



NLCBC2-556
Square Reflector with Square Aperture



5" Cobalt Click LED Retrofit Reflectors

Reflector Type	Color Temperature	Finish (see chart above)	Lumens	Dimming & Emergency
NLCBC2-551 = Round Reflector	**27** = 2700K	**BB** = Black / Black	**/A** = 750lm (Dedicated CCT) 900lm (Comfort Dim)	(blank) = 120V Phase (Triac/ELV)
NLCBC2-552 = Round Baffle	**30** = 3000K	**BW** = Black / White	**/10** = 1000lm	**LE4** = 120-277V Phase or 0-10V (requires Nora 4W housing)
NLCBC2-553 = Square Round	**35** = 3500K	**BZBZ** = Bronze / Bronze		**EM** = 120V with Emergency Wiring [3] (requires Nora EM housing)
NLCBC2-556 = Square Regress	**40** = 4000K	**COCO** = Copper / Copper		**LE4EM** = LE4 w/ Emergency Wiring [3] (requires Nora 6WEM housing)
	TW = Selectable CCT [1]	**DW** = Diffused / White		
	CD = Comfort Dim [2]	**HZW** = Haze / White		
		MPW = Matte Powder White		
		NN = Natural Metal		
		PW = Pewter / White		
		WW = White / White		

Notes:
[1] Available in 1000lm & 120V only. Compatible w/NEPK-23LEDUNV
[2] Available in 900lm & 120V only. Compatible w/EM housings
[3] Available with Dedicated CCT & Comfort Dim only

Optional Accessories

Description
NLCBC-5EYELIDB = 5" Round Eyelid, Black
NLCBC-5EYELIDBZ = 5" Round Eyelid, Bronze
NLCBC-5EYELIDMPW = 5" Round Eyelid, Matte Powder White
NLCBC-5EYELIDW = 5" Round Eyelid, White
NLCBC-50R-B = 5" Round Oversize Ring, Black
NLCBC-50R-BZ = 5" Round Oversize Ring, Bronze
NLCBC-50R-MPW = 5" Round Oversize Ring, Matte Powder White
NLCBC-50R-W = 5" Round Oversize Ring, White
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings
NEPK-23LEDUNV = 23W Emergency LED Driver w/Remote Test Switch

Example: **NLCBC2-55130MPW/ALE4** = 5" Cobalt Click LED Retrofit Reflector, 750lm / 10W, 3000K, Matte Powder White Finish, 120-277V Phase or ELV dimming

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NLCBC2-55 Series

5" Cobalt Click LED Retrofit Downlight Accessories

Type	
Project	
Catalog No.	
Notes	



Round Eyelid

NLCBC-5EYELIDB Black Finish
NLCBC-5EYELIDBZ Bronze Finish
NLCBC-5EYELIDMPW Matte Powder White
NLCBC-5EYELIDW White Finish

Round eyelid used to convert round reflector or baffle to half moon wall wash trim.



Oversize Ring

NLCBC-50R-B Black Finish
NLCBC-50R-BZ Bronze Finish
NLCBC-50R-MPW Matte Powder White
NLCBC-50R-W White Finish

Round oversize ring used to cover ceiling cut-outs up to 7"



Medium Base Socket Adapter

NRA-211SM

Retrofit adapter allows luminaire to be installed over recessed housings with a medium base socket.

Note: Each luminaire includes one adapter



GU24 Socket Adapter

NRA-212SM

Retrofit adapter allows luminaire to be installed over recessed housings with a GU24 socket.

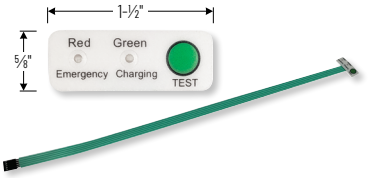


23W Emergency LED Driver with Remote Test Switch

NEPK-23LEDUNV

120-277V Emergency battery operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to charge the battery.

Note: Compatible with Selectable CCT only



Ribbon Test Switch for NEPK-23LEDUNV

NEPKA-20/23LEDRTS

Ribbon test switch replaces remote test switch included with emergency driver. Double sided tape is pre-installed.

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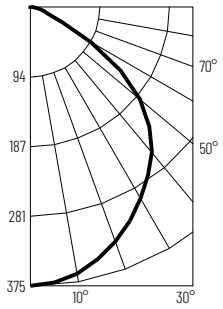
PHOTOMETRICS

5" Cobalt Click LED Retrofit Downlights
750 lumens / Dedicated CCT

Type
Project
Catalog No.
Notes

Test Information
Test Number: NTR1296
Part Number: NLCBC2-55127WW/A
Beam Spread: 101° Wide Flood
Lumens: 843lm
Wattage: 9.53W
Efficacy: 88lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.4fc	9'-8"
6'	10.4fc	14'-7"
8'	5.9fc	19'-6"
10'	3.8fc	24'-4"
12'	2.6fc	29'-2"

Zonal Lumen Summary

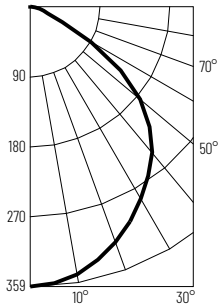
Zone	Lumens	% Luminaire
0-30	281	33.4
0-40	454	53.9
0-60	758	89.9
0-90	838	99.4
90-180	5	0.6
0-180	843	100

Candela Table

Vertical Angles	Candela
0	375
5	372
15	351
25	317
35	276
45	227

Test Information
Test Number: NTR1297
Part Number: NLCBC2-55130WW/A
Beam Spread: 101° Wide Flood
Lumens: 803lm
Wattage: 9.56W
Efficacy: 84lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	22.5fc	9'-8"
6'	10fc	14'-7"
8'	5.6fc	19'-5"
10'	3.6fc	24'-4"
12'	2.5fc	29'-1"

Zonal Lumen Summary

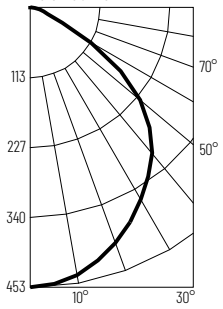
Zone	Lumens	% Luminaire
0-30	269	33.5
0-40	434	54
0-60	723	90.1
0-90	798	99.4
90-180	5	0.6
0-180	803	100

Candela Table

Vertical Angles	Candela
0	359
5	357
15	336
25	303
35	264
45	217

Test Information
Test Number: NTR11254
Part Number: NLCBC2-55135WW/A
Beam Spread: 100° Wide Flood
Lumens: 986lm
Wattage: 10W
Efficacy: 99lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.18
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28.3fc	9'-6"
6'	12.6fc	14'-4"
8'	7.1fc	19'
10'	4.5fc	23'-10"
12'	3.1fc	28'-7"

Zonal Lumen Summary

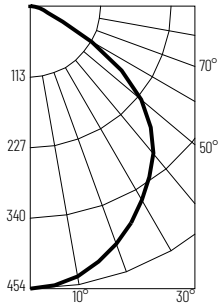
Zone	Lumens	% Luminaire
0-30	337	34.2
0-40	544	55.1
0-60	900	91.3
0-90	983	99.7
90-180	3	0.3
0-180	986	100

Candela Table

Vertical Angles	Candela
0	452
5	448
15	423
25	380
35	330
45	269

Test Information
Test Number: NTR11255
Part Number: NLCBC2-55140WW/A
Beam Spread: 100° Wide Flood
Lumens: 979lm
Wattage: 10W
Efficacy: 98lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.18
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28.2fc	9'-6"
6'	12.5fc	14'-2"
8'	7.1fc	18'-11"
10'	4.5fc	23'-8"
12'	3.1fc	28'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	336	34.3
0-40	542	55.4
0-60	896	91.5
0-90	976	99.7
90-180	3	0.3
0-180	979	100

Candela Table

Vertical Angles	Candela
0	452
5	447
15	421
25	379
35	329
45	268

Finish Multipliers
Finish: Black (0.74), Bronze (0.74), Diffused Clear (0.91), Haze (0.9), Matte Powder White (0.97), Natural Metal (0.81)

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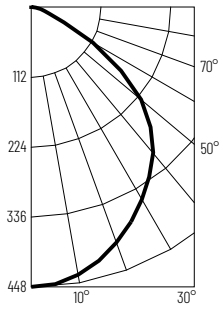
PHOTOMETRICS

5" Cobalt Click LED Retrofit Downlights
1000 lumens / Dedicated CCT

Type
Project
Catalog No.
Notes

Test Information
Test Number: NTR1302
Part Number: NLCBC2-55127WW/10
Beam Spread: 101° Wide Flood
Lumens: 1008lm
Wattage: 11.44W
Efficacy: 88lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28fc	9'-8"
6'	12.4fc	14'-7"
8'	7fc	19'-6"
10'	4.5fc	24'-4"
12'	3.1fc	29'-2"

Zonal Lumen Summary

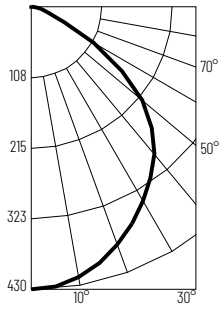
Zone	Lumens	% Luminaire
0-30	336	33.3
0-40	543	53.9
0-60	906	89.9
0-90	1002	99.4
90-180	6	0.6
0-180	1008	100

Candela Table

Vertical Angles	Candela
0	448
5	445
15	420
25	379
35	331
45	272

Test Information
Test Number: NTR1303
Part Number: NLCBC2-55130WW/10
Beam Spread: 101° Wide Flood
Lumens: 965lm
Wattage: 11.41W
Efficacy: 85lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.9fc	9'-8"
6'	12fc	14'-7"
8'	6.7fc	19'-5"
10'	4.3fc	24'-4"
12'	3fc	29'-1"

Zonal Lumen Summary

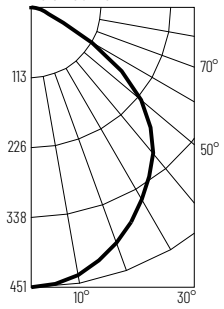
Zone	Lumens	% Luminaire
0-30	322	33.4
0-40	519	53.8
0-60	865	89.7
0-90	956	99.1
90-180	9	0.9
0-180	965	100

Candela Table

Vertical Angles	Candela
0	430
5	427
15	404
25	363
35	315
45	259

Test Information
Test Number: NTR2579R1
Part Number: NLCBC2-55135WW/10
Beam Spread: 100° Wide Flood
Lumens: 1000lm
Wattage: 11.29W
Efficacy: 89lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.2

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28.2fc	9'-8"
6'	12.5fc	14'-6"
8'	7.1fc	19'-4"
10'	4.5fc	24'-2"
12'	3.1fc	29'

Zonal Lumen Summary

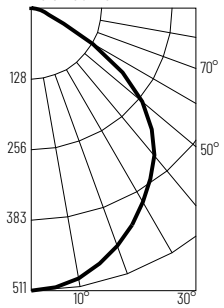
Zone	Lumens	% Luminaire
0-30	339	33.9
0-40	547	54.7
0-60	908	90.9
0-90	1000	100
90-180	0	0
0-180	1000	100

Candela Table

Vertical Angles	Candela
0	451
5	448
15	425
25	384
35	333
45	271

Test Information
Test Number: NTR2580R1
Part Number: NLCBC2-55140WW/10
Beam Spread: 99° Wide Flood
Lumens: 1107lm
Wattage: 11.43W
Efficacy: 97lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.2
Spacing Criteria (90°-270°): 1.18

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	31.9fc	9'-6"
6'	14.2fc	14'-2"
8'	8fc	18'-11"
10'	5.1fc	23'-8"
12'	3.6fc	28'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	382	34.5
0-40	615	55.5
0-60	1011	91.3
0-90	1107	100
90-180	0	0
0-180	1107	100

Candela Table

Vertical Angles	Candela
0	511
5	507
15	480
25	434
35	375
45	302

Finish Multipliers
Finish: Black (0.74), Bronze (0.74), Diffused Clear (0.91), Haze (0.9), Matte Powder White (0.97), Natural Metal (0.81)

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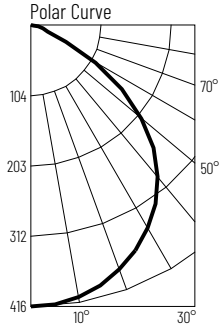
PHOTOMETRICS

5" Cobalt Click LED Retrofit Downlights
1000 lumens / Selectable CCT

Type
Project
Catalog No.
Notes

Test Information
Test Number: NTR2558R1
Part Number: NLCBC2-55127TWWW/10
Beam Spread: 101° Wide Flood
Lumens: 957lm
Wattage: 13.23W
Efficacy: 72lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26fc	9'-10"
6'	11.5fc	14'-8"
8'	6.5fc	19'-8"
10'	4.2fc	24'-7"
12'	2.9fc	29'-6"

Zonal Lumen Summary

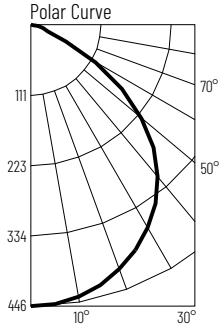
Zone	Lumens	% Luminaire
0-30	320	33.4
0-40	520	54.4
0-60	865	90.5
0-90	957	100
90-180	0	0
0-180	957	100

Candela Table

Vertical Angles	Candela
0	416
5	414
15	398
25	367
35	322
45	258

Test Information
Test Number: NTR2559R1
Part Number: NLCBC2-551TWWW/10
Beam Spread: 101° Wide Flood
Lumens: 1026lm
Wattage: 13.44W
Efficacy: 76lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27.9fc	9'-10"
6'	12.4fc	14'-8"
8'	7fc	19'-8"
10'	4.5fc	24'-7"
12'	3.1fc	29'-6"

Zonal Lumen Summary

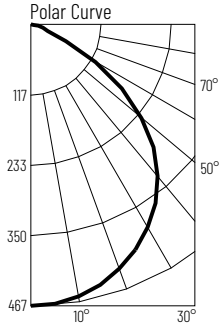
Zone	Lumens	% Luminaire
0-30	343	33.4
0-40	558	54.4
0-60	928	90.5
0-90	1026	100
90-180	0	0
0-180	1026	100

Candela Table

Vertical Angles	Candela
0	446
5	444
15	426
25	393
35	345
45	277

Test Information
Test Number: NTR2560R1
Part Number: NLCBC2-551TWWW/10
Beam Spread: 101° Wide Flood
Lumens: 1070lm
Wattage: 13.6W
Efficacy: 79lpw
CCT / CRI: 3500K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	29.2fc	9'-10"
6'	13fc	14'-7"
8'	7.3fc	19'-6"
10'	4.7fc	24'-5"
12'	3.2fc	29'-4"

Zonal Lumen Summary

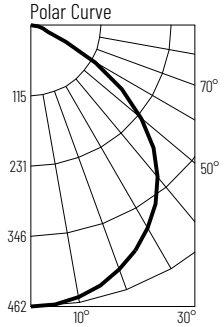
Zone	Lumens	% Luminaire
0-30	359	33.6
0-40	584	54.6
0-60	968	90.5
0-90	1070	100
90-180	0	0
0-180	1070	100

Candela Table

Vertical Angles	Candela
0	467
5	465
15	447
25	412
35	362
45	288

Test Information
Test Number: NTR2561R1
Part Number: NLCBC2-551TWWW/10
Beam Spread: 101° Wide Flood
Lumens: 1056lm
Wattage: 13.47W
Efficacy: 78lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28.9fc	9'-8"
6'	12.8fc	14'-7"
8'	7.2fc	19'-5"
10'	4.6fc	24'-4"
12'	3.2fc	29'-2"

Zonal Lumen Summary

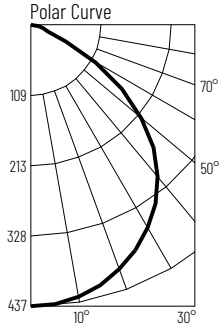
Zone	Lumens	% Luminaire
0-30	355	33.7
0-40	577	54.7
0-60	955	90.5
0-90	1056	100
90-180	0	0
0-180	1056	100

Candela Table

Vertical Angles	Candela
0	462
5	460
15	442
25	408
35	357
45	285

Test Information
Test Number: NTR2562R1
Part Number: NLCBC2-551TWWW/10
Beam Spread: 100° Wide Flood
Lumens: 998lm
Wattage: 13.17W
Efficacy: 76lpw
CCT / CRI: 5000K / 90 CRI
Spacing Criteria (0°-180°): 1.24
Spacing Criteria (90°-270°): 1.24

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27.3fc	9'-8"
6'	12.2fc	14'-6"
8'	6.8fc	19'-4"
10'	4.4fc	24'-2"
12'	3fc	29'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	337	33.8
0-40	547	54.9
0-60	903	90.5
0-90	998	100
90-180	0	0
0-180	998	100

Candela Table

Vertical Angles	Candela
0	437
5	435
15	419
25	386
35	338
45	268

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