

Type: Job Name:

CSS | SM

SPECIFICATION CODE

CSS selections only³

model	light	color engine	diameter temp	finish	voltage	Direct Driver	InDirect Driver	mounting	standard cable length	standard cord color	standard canopy	standard canopy finish	options	options
Model	Direct Light Output	In-Direct Light Output	Direct Color Temp	In-Direct Color Temp	Nominal Diameter	Finish	Voltage	Direct Driver	InDirect Driver	Mounting	Options			
MIC-DR-3" edge profile Direct	SLO - Standard	SLO - Standard	27 - 2700K	27 - 2700K	24 - 24"	Powder Coat	120	EB - Electronic (standard)	EB - Electronic (standard)	CSS - Cable Suspended (36" standard)	Cable Length ¹ Cord Color ¹ Canopy ¹ Canopy Finish ¹			
	Lumen Output	Lumen Output	30 - 3000K	30 - 3000K	36 - 36"	WMT -White	277							
	HLO - High	HLO - High	35 - 3500K	35 - 3500K	48 - 48"	Matte Texture	347 ²							
	CLO ^{4,5} - Custom	CLO ^{4,5} - Custom	40 - 4000K	40 - 4000K	option	BMT - Black Matte Texture	Dimming D1 - 1% (nom) 0-10V							
MIC-DR/IN-3" edge profile Direct/Indirect	Lumen Output	Lumen Output	option	option	option	SMT - Silver Matte Texture	DMX - DMX control for RGB	DMX - DMX control for RGB	SM - Surface Mount	NOTES				
	Lumen Output	Lumen Output	option	option	option	CUP - Custom ³								
	Lumen Output	Lumen Output	option	option	option									
	Lumen Output	Lumen Output	option	option	option									

NOTES

- 1 see CSS options for selections
- 2 available for EB, D1 drivers only
- 3 contact factory for custom finish
- 4 available for EB and D1 drivers only
- 5 Contact Factory

CSS Options

Cable Length	Power Cord Color	Canopy	Canopy Finish
36 - 36" (standard)	W - White	STND - Bracket bar w/5" round canopy	MW - Matte White
72 - 72"	B - Black	NC - No canopy 1/4-20 side exit cable gripper (1/4-20 stud provided by others)	SMT - Silver Matte Texture
120 - 120"	G - Gray (standard)	CU - Custom (contact factory)	FB - Flat Black
			CUP - Custom (contact factory)

Option Code

Options

2CKT - 2 Circuit

EM² - Remote Inverter

option

Fixture Performance

(Delivered Lumens and Fixture Input Wattage)

¹preliminary testing, subject to change

MIC-DR/IN-2' (4000K) 25% Indirect / 75% Direct

SLO-SLO - 6870 lm @ 62.16 watts

HLO-HLO - 13741 lm @ 124 watts

CLO - Custom Lumen Output -Contact Factory

MIC-DR-2' (4000K)

SLO-SLO - 4536 lm @ 42 watts

HLO-HLO - 9072 lm @ 84 watts

CLO - Custom Lumen Output - Contact Factory

MIC-DR/IN-3' (4000K) 25% Indirect / 75% Direct

SLO-SLO - 15231 lm @ 138.6 watts

HLO-HLO - 30462 lm @ 277 watts

CLO - Custom Lumen Output -Contact Factory

MIC-DR-3' (4000K)

SLO - 11,334 lm @ 105 watts

HLO - 22,668 lm @ 210 watts

CLO - Custom Lumen Output - Contact Factory

MIC-DR/IN-4' (4000K) 25% Indirect / 75% Direct

SLO-SLO - 27,382 lm @ 250 watts

HLO-HLO - 54,765 lm @ 399 watts

CLO - Custom Lumen Output -Contact Factory

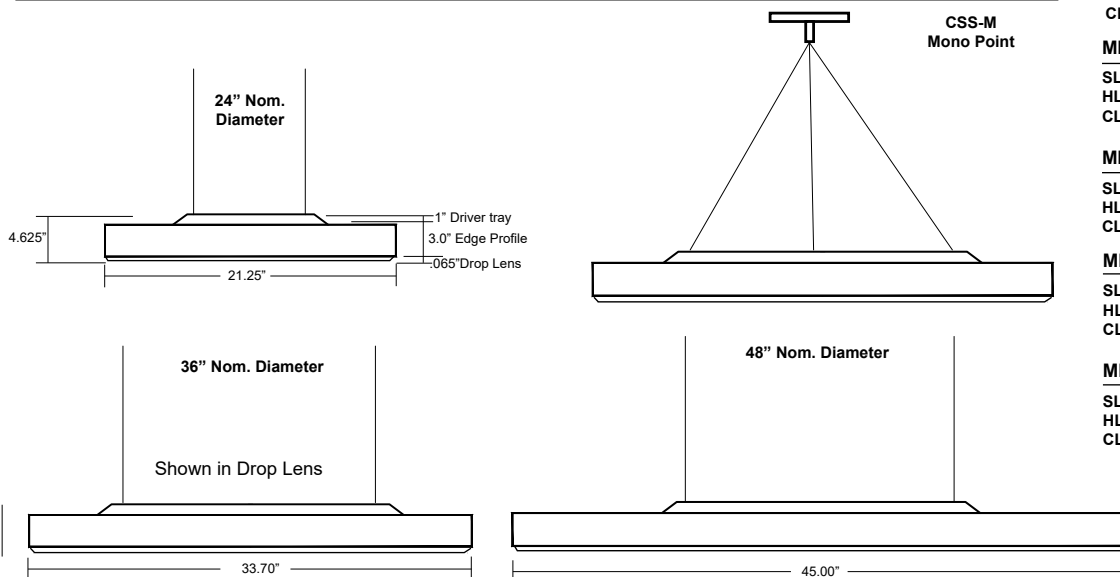
MIC-DR-4' (4000K)

SLO - 21,500 lm @ 200 watts

HLO - 43,000 lm @ 500 watts

CLO - Custom Lumen Output - Contact Factory

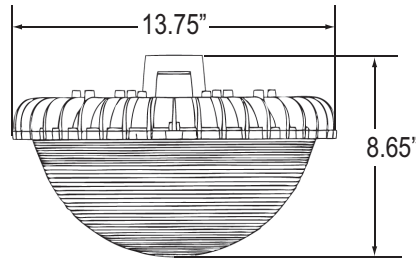
Dimensions



V-0719



Nellis Series [NS]



Nellis Dimensions

MOUNTING STYLE



STYLE A
External Driver with
3" Static Stem to J-BOX



STYLE B
Surface Mount Box with
4-Point Mounting and 3" Static Stem



STYLE C
Rapid Mount Box XL with
3" Static Stem

Catalog Number

NS-A-UPL-25-CT3-UNV-WHT-PM-X-X-(0-10V)

Project Name & Location

Type



Product Specifications

DRIVER: Universal Voltage 120/277V [UNV] standard. Dimming optional.

GASKETING: High temperature, non-aging black EPDM gasketed seals. Seals diffuser to housing to protect against outside contaminants.

DIFFUSER: Standard clear acrylic prismatic dome lens for exceptional light distribution. Optional frost acrylic or polycarbonate prismatic domed lenses.

FINISH: Polyester powder coat White [WHT] is Standard. Optional Black [BK], Bronze [BZ], Painted Aluminum [PA] For custom colors, please consult factory.

LAMPS: Super Bright White LED.

HOUSING: Single piece precision die cast aluminum.

MOUNTING:

STYLE A: External Driver with 3" Static Stem to J-BOX.

STYLE B: Surface Mount Box with 4-Point Mounting with 3" Static Stem.

STYLE C: Rapid Mount Box XL with 3" Static Stem.

NOTE: Style B/Style C mounting boxes are used for housing drivers and optional components.

STEM: ½" NPT galvanized and powder coated, 12" long stem standard. Consult factory for custom stem lengths.

WEIGHT: Nellis [16lbs].

COMPLIANCE Built according to U.S. and Canadian Safety Standards. Suitable for Wet Locations. IP66 Tested and Rated. NSF International Certified for NSF/ANSI Standard 2 - Food Equipment. **Made in USA / Buy America Compliant / Buy American Act.**



order example:

NS-C-PCD-LED55-CT4-UNV-WHT-TP

SERIES

NS Nellis Series

MOUNTING STYLE

A External Driver with 3" Static Stem to J-BOX

B Surface Mount Box with 4-point mounting with 3" Static Stem

C Rapid Mount Box XL with 3" Static Stem

REFLECTOR / DIFFUSER

UPL 12% Uplight (Specular Reflector System)

-If UPL is selected, Skip Diffuser Options

PCD Prismatic Clear Polycarbonate Diffuser

-Type V Distribution

PAFD Prismatic Frosted Acrylic Diffuser

LED WATTAGE:

SERIES	LED WATTAGE
ALL MODELS	35W / 55W / 75W / 100W

LED COLOR TEMPERATURE:

CT3 ±3000K LED Color Temp

CT4 ±4000K LED Color Temp

CT5 ±5000K LED Color Temp

VOLTAGE

347 347 Volts

480 480 Volts

UNV 120~277 Universal Volt
0-10V Low Voltage Dimming is Standard

FINISH

BK Black

BZ Bronze

PA Painted Aluminum

WHT White

NAT Epoxy Coating for Natatorium
- Includes Conformal Coating of LEDs

CC Custom Color (Visit www.ralcolor.com)

MOUNTING OPTIONS

PM Pendant Mount with Stem
- ½" IPS Conduit Stem (12" Length Standard)

Choose Pendant Canopy Style

CSW-R = Canopy Swivel for 4" Round J-Box

CSW-RR = Canopy Swivel for 4" Round J-Box

- Rapid Mount with Hinged Door

CSW-S = Canopy Swivel for 4" Square J-Box

CSW-SR = Canopy Swivel for 4" Square J-Box

- Rapid Mount with Hinged Door

MISC OPTIONS

BS Bird Shield
- Uplight (UPL) Not Available with Bird Shield

FUS Fuse and Fuseholder

FUS2 Double Fusing

HSS House Side Shield External (120° Standard)

IHS Inside House Side Shield (120° Standard)

SU 10KA Surge Protection for LED (ANSI C62.41.2)

TP Stainless Steel Tamper Proof Locking Screws

10W 10 Year Limited Warranty

DIMMING OPTIONS

Note: 0-10V 100%-30% is Standard

11DIM DALI LED Dimming (Style B / Style C Only)

12DIM Lutron LED Dimming (Style B / Style C Only)

13DIM LED Step Dimming (Style B / Style C Only)

Additional Options on PAGE 2



Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project:	
Location:	
Cat.No:	
Type:	
Lamps:	Qty:
Notes:	

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	Options					Finish
							Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	
ECF-S												
ECF-S EcoForm site and area, small	32L 32 LEDs (2 modules)	365 365mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	AR Arm Mount (standard) ²	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270°	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVV 347-480V (50/60Hz)	DD 0-10V External dimming (by others) ⁴ DCC Dual Circuit Control ^{4,5,6} FAWS Field Adjustable Wattage Selector ^{4,5} SW Interface module for SiteWise ^{4,6,7} LLC Integral wireless module ^{4,6,8,17} BL Bi-level functionality ^{4,17}	IMRI3 Integral with #3 lens ¹⁵ IMRI7 Integral with #7 lens ¹⁶	PCB Photocontrol Button ^{8,9} TLRD5 Twist Lock Receptacle 5 Pin ¹⁰ TLRD7 Twist Lock Receptacle 7 Pin ¹⁰ TLRPC Twist Lock Receptacle w/ Photocell ^{9,11}	Fusing F1 Single (120, 277, 347VAC) ⁹ F2 Double (208, 240, 480VAC) ⁹ Pole Mount Fusing FP1 Single (120, 277, 347VAC) ⁹ FP2 Double (208, 240, 480VAC) ⁹ FP3 Canadian Double Pull (208, 240, 480VAC) ⁹ Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB Terminal Block ¹² RPA Round Pole Adapter (fits to 3"- 3.9" O.D. pole) ¹³ HIS Internal Housing Side Shield ¹⁴	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) Custom color (Must supply color chip for required factory quote) CC
		530 530mA										
		700 700mA										
		1A 1050mA										
		1.2A 1200mA										
	48L 48 LEDs (3 modules)	900 900mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2	SF Slip Fitter Mount ³ (fits to 2 3/8" O.D. tenon)	Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270°		DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming, 7 hours ^{4,8} CM50 Median 50% Dimming, 8 hours ^{4,8} CS30 Safety 30% Dimming, 7 hours ^{4,8} CM30 Median 30% Dimming, 8 hours ^{4,8}					
		1A 1050mA										
		1.2A 1200mA										
	64L 64 LEDs (4 modules)	900 900mA	CW-G2 Cool White 5000K, 70 CRI Generation 2	WS Wall mount with surface conduit rear entry permitted	Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270°							
		1A 1050mA										
				RAM Retrofit arm mount kit ²	Type 5 5 Type 5 5W Type 5W AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270°							

+ House Side Shield

1. BL-IMRI3/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V)
2. Mounts to a 4" round pole with adapter included for square poles.
3. Limited to a maximum of 45 degrees aiming above horizontal.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Available only in 120 or 277V.

8. Not available in 347 or 480V
9. Must specify input voltage.
10. Dimming will not be connected to NEMA receptacle if ordering with other control options.
11. Not available in 480V. Order photocell separately with TLRD5/7.
12. Not available with DCC.
13. Not available with SF and WS. RPAs provided with black finish standard.

14. HIS not available with Type 5 and 5W optics.
15. Not available with DD, DCC, and FAWS dimming control options.
16. Not available with DD, DCC, FAWS and LLC dimming control options.
17. Must specify a motion sensor lens.

4" ProTools D Downlight

Round Recessed Cone

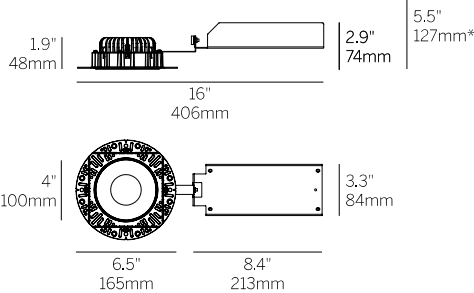
inter•lux



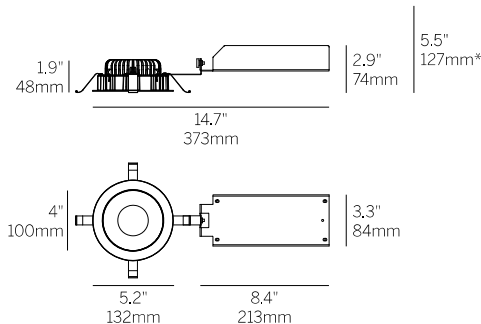
Recessed Plaster Trim



Recessed Bezel Trim



Recessed Plaster Trim (RPT)



Recessed Bezel Trim (RBT)

*Minimum of 5.5" (127mm) ceiling void is required to install the integral driver from below the ceiling.

Cut Out: Ø 4.75" / 121mm

Ordering Information

WG-100RPTD	RBT	M	930		RRC	RSO	110		WL
Model	Fixation	Power ^{1,2}	CRI/CCT ³	Driver ⁴	Cover	Lens	Beam	Finish	Options ⁶
WG-100RPTD	RPT RBT	L M H	927 930 935 940	X S D010 PEQ1 PEQ0 DFPN	RRC	RSO	110	W S ⁵	LP CP IC WL

Luminaire

- 4" round aperture downlight with wide distribution ambient lighting.
- 0.7" regressed, evenly illuminated, highly efficient Satin Opal Lens.
- High efficiency, high transmission lens.
- Luminaire and driver installed and maintained from below the ceiling.
- Modular interchangeability throughout the entire ProTools range of products.

Fixation

- RPT = Recessed Plaster Trim
- RBT = Recessed Bezel Trim

Power^{1,2}

- L = Low Power, 11W @ 350mA
- M = Mid Power, 15W @ 500mA
- H = High Power, 22.5W @ 700mA

CRI/CCT³

90+ CRI (Low/Medium/High Power)

- 927 = 2700K, (700/976/1326 lm)
- 930 = 3000K, (719/1004/1364 lm)
- 935 = 3500K, (758/1058/1437 lm)
- 940 = 4000K, (800/1116/1516 lm)

Driver⁴

- X = Remote driver, ordered separately
- S = Standard non-dim driver, 120-277V
- D010 = EldoLED, 1%, 0-10V Driver, 120-277V
- PEQ1 = Lutron Hi-lume 1% EcoSystem, 120-277V
- PEQ0 = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- DFPN = Lutron Forward Phase 1% 120VAC

Cover

- RRC = Round Recessed Cone

Lens

- RSO = Satin Opal

Beam

- 110 = 110° Beam Angle

Finish

- W = White, 15% gloss, RAL9003 (standard)
- S = Silver, 15% gloss⁵

Options⁶

ProTools downlights require no additional options kits for remodel & new construction

- LP = Landing Pan
- CP = Chicago Plenum Housing
- IC = IC/NC Housing
- WL = Wet Location

¹ Other lumen packages available, consult factory.

² Wattage shown does not include power supplies/drivers. System wattage adds 10-20%.

³ Delivered lumen data shown for 100RPTD-...-RRC-RSO-110-W. See Page 2 for additional details.

⁴ See power supply page for details.

⁵ Plaster trim version includes white frame and silver cover.

⁶ To specify multiple options, select the appropriate grouped codes from the dropdown e.g. LP-WL.

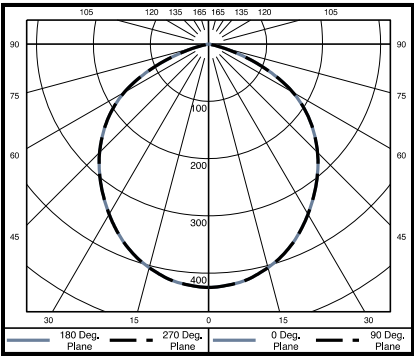
4" ProTools D Downlight

Round Recessed Cone



WG-100RPTD-RRC-RSO-110-W

		Delivered Lumens			
Power	W	2700K	3000K	3500K	4000K
L	11	700	719	758	800
M	15	976	1004	1058	1116
H	22.5	1326	1364	1437	1516



Polar Plot

Cone of Light Tabulation*		
Mounting Height (Ft)	Footcandles at Nadir	Diameter (Ft)
4	26.5	4.8
6	11.8	7.2
8	6.6	9.6
10	4.3	12
12	3	14.4
14	2.2	16.8
16	1.7	19.3

*Tabulation uses Mid Power / 935 LED



Project: _____

Type: LS1 Length: _____

Notes:

Product	Wire	Spacing	LED Type	CCT	Globe	Voltage
LSA	B	18	V	27	ANA	12
Litesphere Adapt	B Black	12 12" OC	V Very High Output	19 1900K	ANA Clear Glass Globe Style: Ana	12V DC
	W White	18 18" OC		27 2700K	VIC** Clear Glass Globe Style: Victoria	
		24 24" OC		30 3000K	GAB Opal Glass Globe Style: Gaby	
		36 36" OC		35 3500K	BRE Bronze Glass Vintage Style: Brenda	
		48 48" OC		40 4000K	LAU** Opal Glass Vintage Style: Laura	
		CS Custom Spacing		50 5000K	GIN Scratched Glass Globe Style: Gina	
				AM Amber	ANG Striped Glass Globe Style: Angela	
				RD Red	KAT Frosted Glass Globe Style: Katie	
				RB Royal Blue	SUS** Clear Glass Globe Style: Susan	
				GN Green	TON** Frosted Glass Globe Style: Toni	
				YL Yellow	LUC** Clear Glass Globe Style: Lucia	
					CG* Varied Globes	



Tivoli manufactures Litesphere to your specified lengths.
Individual lengths and runs must be specified at time of ordering.
(see chart on page 6 for ordering details)

*Varied Globes - Use individual ADAPT globe part numbers with quantity to match total ordered socket count. All ADAPT globes come uninstalled.
(see page 6 for ordering details)

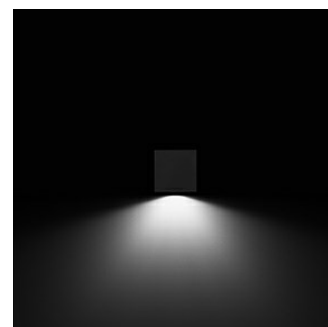
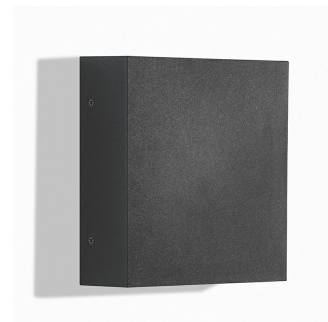
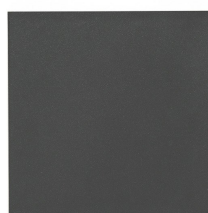
Additional Globes ordered above socket count will be processed as replacement globes.

****Consult Factory for MOQ and Lead Time.**

MIMIK 20 M TYPE IV



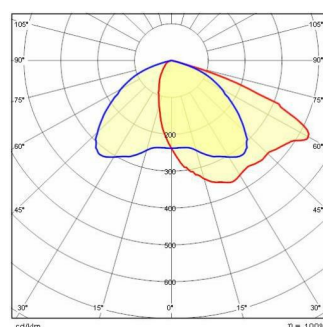
Part number	071631
Lampholder:	LED
Wattage:	15 W
Finish:	AN-96 / Iron gray / Textured
Degree of protection:	IP65
CRI:	70
Kelvin:	3000
Luminaire lumen output:	1319 lm
L:	L80
B:	B10
Lifetime:	60000 h
cULus:	✓
Voltage:	120-277 V



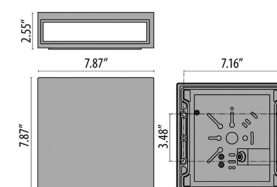
Description

- Wall- and post- mount series. Fixtures consist of:
- Multi-step powder-coat painting process, optimized against UV rays and corrosion.
 - Copper-free precision die-cast aluminum housing and mounting plate.
 - Extra-clear, flat, tempered silk-screened soda-lime glass diffuser.
 - Custom molded, anti-aging gasket(s).
 - Stainless steel external hardware.
 - Custom MCPCB utilized to maximize heat dissipation and promote a long LED life.
 - High-transmittance transparent optics.
 - IESNA Type IV light distribution.
 - Input voltage: 120-277 V (50 / 60 Hz), integral 0-10 V dimming driver.
 - Optional, integral, emergency battery-pack designed for a minimum operation of 90 minutes (EMPK versions).
 - Customizing facade faceplate available for MIMIK FLAT versions (ordered separately).
 - Post accessory available for MIMIK 20 (ordered separately).
 - Consult factory for dimming options, custom finishes (please specify RAL color), and non-cataloged CCT (Kelvin) options.
 - Optional clear plexiglass panel can be customized with logos for signage or wayfinding (LINE BOLLARD). Consult factory for more information.
 - Product meets Buy American Act requirements within ARRA.
 - 5-year warranty.

Photometric data



Technical drawings



OPTIONAL ACCESSORIES

MIMIK 20 BOLLARD



02401
Bollard h 40"

Iron gray

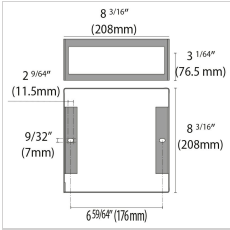
MIMIK 20 LINE BOLLARD



02404
Line Bollard h 40"

Iron gray

MIMIK 20



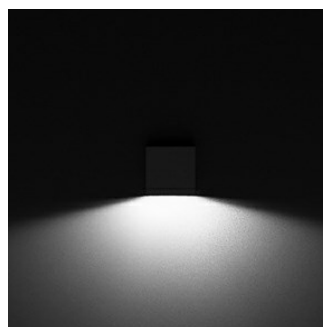
310445
Customising ring / Facade Accessory

Iron gray

MIMIK 50 M TYPE IV



Part number	079911
Lampholder:	LED
Wattage:	53 W
Finish:	GR-94 / Aluminum metallic / Textured
Degree of protection:	IP65
CRI:	80
Kelvin:	3000
Luminaire lumen output:	5520 lm
L:	L80
B:	B10
Lifetime:	71000 h
cULus:	✓



Description

Wall mount series. Fixtures consist of:

- Multi-step powder-coat painting process, optimized against UV rays and corrosion.
- Copper-free precision die-cast aluminum housing and mounting plate.
- Extra-clear, flat, tempered silk-screened soda-lime glass diffuser.
- Custom molded, anti-aging gasket(s).
- Stainless steel external hardware.
- Custom MCPCB utilized to maximize heat dissipation and promote a long LED life.
- High-transmittance transparent optics.
- Single (M) or dual (B) light emission.
- IESNA Type IV light distribution.
- Standard dual-circuit wiring and dimming for dual (B) light emission models.
- Input voltage: 120-277 V (50 / 60 Hz), integral 0-10 V dimming driver.
- BUTTON and SWIVEL 120-277 V (50 / 60 Hz) photoelectric switch options available (ordered separately).
- Consult factory for dimming options, custom finishes (please specify RAL color), and non-cataloged CCT (Kelvin) options including static colors.
- Product meets Buy American Act requirements within ARRA.
- 5-year warranty.

Photometric data

Photometric Lvk MIMIK 50 M TYPE IV 1



Technical drawings

