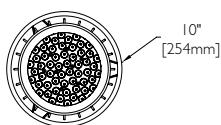
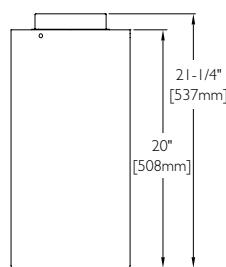


ESA-C10-MD- 56

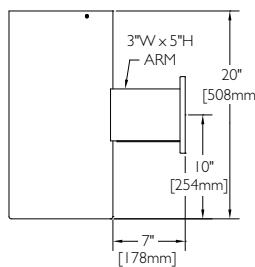
Essentia® LED Downlight - Cylinder - Medium



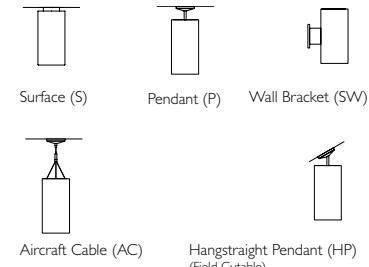
SURFACE MOUNT



WALL BRACKET



MOUNTING



FAMILY	PRODUCT	OPTIC	MOUNTING	LED COUNT (# OF LEDS)	SERIES	VOLTAGE	COLOR	REFLECTOR/ CONE FINISH ³	DRIVE CURRENT	OPTIONS
ESA	C10	MD		56	D	U				Please type additional options in manually on the lines provided below

Essentia 10" Cylinder Medium

S Surface
 P Pendant¹
 SW Wall Bracket
 HP Hangstraight Pendant²
 AC1 5' Aircraft Cable
 AC2 10' Aircraft Cable
 AC3 15' Aircraft Cable

56 D Universal 120-277V

BK Black
 BZ Bronze
 CS Camaro Silver
 WH White

SSGC Clear
 SSGGR Graphite
 SSGBR Bronze
 SSGCG Champagne Gold
 SSGPE Pewter
 SSGWH Wheat
 SSGB Black
 W White

525 525mA
 700 700mA

LM Lens Media
 FS Fusing
 27K 2700K⁴
 30K 3000K⁴
 40K 4000K⁴

FOOTNOTES

1. 24" standard, consult factory for other lengths

2. 24" standard; 45° max slope, field cuttable (consult factory for other lengths)

3. SSG = Soft Satin Glow Anti-iridescent

4. Color Temperature per fixture; 3500K Standard

LED PERFORMANCE SPECS

# OF LEDS	INITIAL DELIVERED LUMENS					SYSTEM WATTS 120-277V	TOTAL CURRENT				L70 HOURS* @ 25°C (77°F)	50K HOURS LUMEN MAINTENANCE FACTOR @ 25°C (77°F)
	@ 3500K/ 4000K	@ 3500K/ 4000K with Lens Media	@ 3000K	@ 3000K with Lens Media	@ 2700K		@120V	@208V	@240V	@277V		
525mA FIXTURE OPERATING AT 25°C (77°F) - 0-10V Dimming Standard												
56	5432	4818	4074	3614	3748	3324	100	0.84	0.48	0.41	0.36	138,000
700mA FIXTURE OPERATING AT 25°C (77°F) - 0-10V Dimming Standard												
56	6868	6092	5151	4569	4739	4203	134	1.14	0.66	0.58	0.52	115,000
* For recommended lumen maintenance factor data see TD-14												

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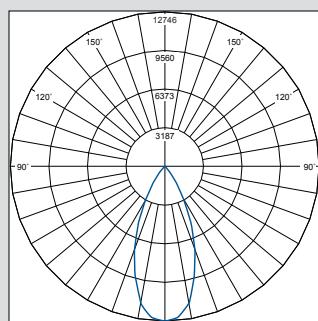
Made in the U.S.A. of U.S. and imported parts. Meets Buy American requirements within the ARRA.



ESA-C10-MD- 56

Essentia® LED Downlight - Cylinder - Medium

PHOTOMETRICS



ESAC10MDS56DUVWH700SSGC35K

LED Count	56
Efficacy	52 Lm/W
S/M	0.70
Color Temperature	3500K
Drive Current	700mA
Delivered Lumens	6945
Test Number:	ESAC10MDS56DUVWH700SSGC35K

LUMINANCE DATA

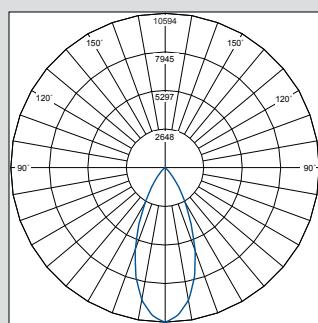
Vertical Angle	Average
45°	3473
55°	293
65°	0
75°	0
85°	0

CONE OF LIGHT

Distance from Workplane	Footcandles	Beam Diameter
6'	333	2.1'
8'	187	2.8'
10'	120	3.5'
12'	83	4.2'
14'	61	4.9'

CANDELA DISTRIBUTION

Degrees	CD
0°	11992
5°	11735
15°	8828
25°	4799
35°	1574
45°	124
55°	9
65°	0
75°	0
85°	0
90°	0



ESAC10MDS56DUVWH700SSGC35KLM

LED Count	56
Efficacy	47 Lm/W
S/M	0.70
Color Temperature	3500K
Drive Current	700mA
Delivered Lumens	6300
Test Number:	ESAC10MDS56DUVWH700SSGC35KLM

LUMINANCE DATA

Vertical Angle	Average
45°	10686
55°	4594
65°	2316
75°	493
85°	0

CONE OF LIGHT

Distance from Workplane	Footcandles	Beam Diameter
6'	279	2.1'
8'	157	2.8'
10'	100	3.5'
12'	70	4.1'
14'	51	4.9'

CANDELA DISTRIBUTION

Degrees	CD
0°	10035
5°	9619
15°	7353
25°	4022
35°	1553
45°	383
55°	134
65°	50
75°	6
85°	0
90°	0

COLOR QUALITY COMMITMENT

COLOR TOLERANCE

Nominal CCT	CCT	CRI	R9
2700K	2755 +/- 42K	90 min	50
3000K	2993 +/- 50K	90 min	50
3500K	3388 +/- 63K	80 min	40
4000K	3899 +/- 75K	80 min	40

The needs and concerns regarding color quality, consistency and stability as they relate to interior spaces are paramount to a successful interior lighting design. Cree is committed to delivering the color-quality performance that meets or exceeds the expectations of best-in-class traditional light source technologies.

Cree Essentia luminaire's initial color consistency to be within a 2-step MacAdam Ellipse from the initial specified color point.

We are committed to providing luminaire color point stability over time, within a 2-step MacAdam Ellipse to the predicted L₇₀ point (in hours) for all products. BetaLED® NanoOptic® Technology enables color spatial uniformity that meets requirements demanded by the most discerning lighting designers.

GENERAL DESCRIPTION

Ten-inch cylinder downlight designed for 56 high output LEDs. Two piece optical assembly provides a broad, even light distribution, combining low brightness, with maximum visual cutoff and efficiency. Five light distributions available – narrow pin, narrow spot, narrow, medium, and wide.

FEATURES

- Luminaire uses 56 high output LEDs, 3500K standard, tolerance to be within a 2-step MacAdam Ellipse. See table for specific color tolerance (below).
- Axial and Tilted Axial TIR NanoOptic on each individual LED to maximize light delivered through aperture.
- Provides 45° visual cutoff to source.
- Light distribution available in narrow pin, narrow spot, narrow, medium, or wide.
- Low brightness parabolic spun Alzak aluminum cone, 0.06" thick with polished radius and continuous self-flange.
- Precision nickel plated cone retainers assure that the lower cone is held in position.
- Custom extruded aluminum heatsink.
- Flow-Thru design to maximize cooling of LEDs.
- Heavy-wall aluminum housing.
- Surface, pendant, wall, or cable mounting.

ELECTRICAL

- High Efficiency constant current driver(s), 120-277VAC input, 50/60Hz, 525mA or 700mA drive current.
- 0-10V dimming, standard. 100%-10% full-range continuous dimming.
- LED drivers have power factor >90% and THD <20% at full load.

TESTING & COMPLIANCE 

UL listed in the U.S. and Canada for damp locations. RoHS compliant.

FINISH

Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Bronze, black, white and camaro silver* powder topcoats are available. The finish is covered by our 10 year limited warranty.

* One year warranty

PATENTS

U.S. and international patents granted and pending. For a listing of patents, visit www.uspto.gov.

