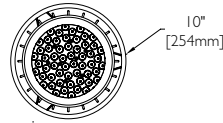
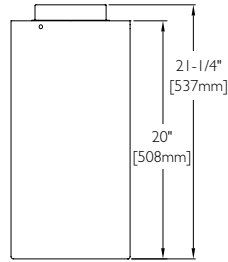


ESA-C10-MD- -56

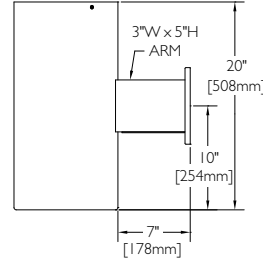
Essentia® LED Downlight - Cylinder - Medium



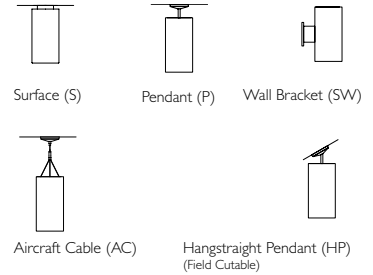
SURFACE MOUNT



WALL BRACKET



MOUNTING



FAMILY	PRODUCT	OPTIC	MOUNTING	LED COUNT (# OF LEDS)	SERIES	VOLTAGE	COLOR	REFLECTOR/ CONE FINISH ³	DRIVE CURRENT	OPTIONS <small>Please type additional options in manually on the lines provided below</small>
ESA	C10	MD		56	D	U				
Essentia	10" Cylinder	Medium	<input type="checkbox"/> S Surface <input type="checkbox"/> P Pendant ¹ <input type="checkbox"/> SW Wall Bracket <input type="checkbox"/> HP Hangstraight Pendant ² <input type="checkbox"/> AC1 5' Aircraft Cable <input type="checkbox"/> AC2 10' Aircraft Cable <input type="checkbox"/> AC3 15' Aircraft Cable	56	D	Universal 120-277V	<input type="checkbox"/> BK Black <input type="checkbox"/> BZ Bronze <input type="checkbox"/> CS Camaro Silver <input type="checkbox"/> WH White	<input type="checkbox"/> SSGC Clear <input type="checkbox"/> SSGGR Graphite <input type="checkbox"/> SSGBR Bronze <input type="checkbox"/> SSGCG Champagne Gold <input type="checkbox"/> SSGPE Pewter <input type="checkbox"/> SSGWH Wheat <input type="checkbox"/> SSGB Black <input type="checkbox"/> W White	<input type="checkbox"/> 525 525mA <input type="checkbox"/> 700 700mA	<input type="checkbox"/> LM Lens Media <input type="checkbox"/> FS Fusing <input type="checkbox"/> 27K 2700K ⁴ <input type="checkbox"/> 30K 3000K ⁴ <input type="checkbox"/> 40K 4000K ⁴

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	@ 2700K with Lens Media		@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	90%
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	88%

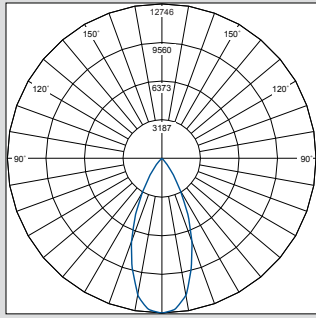
* For recommended lumen maintenance factor data see [TD-14](#)



ESA-C10-MD- -56

Essentia® LED Downlight - Cylinder - Medium

PHOTOMETRICS



ESAC10MDS56DUWH700SSGC35K

LED Count 56
 Efficacy 52 Lm/W
 S/M 0.70
 Color Temperature 3500K
 Drive Current 700mA
 Delivered Lumens 6945
 Test Number:
 ESAC10MDS56DUWH700SSGC35K

LUMINANCE DATA

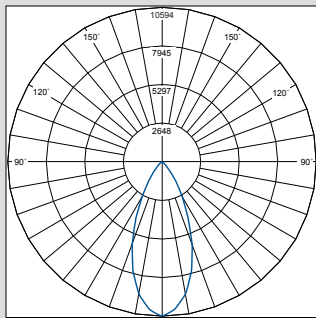
Vertical Angle	Average
45°	3473
55°	293
65°	0
75°	0
85°	0

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

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'



ESAC10MDS56DUWH700SSGC35KLM

LED Count 56
 Efficacy 47 Lm/W
 S/M 0.70
 Color Temperature 3500K
 Drive Current 700mA
 Delivered Lumens 6300
 Test Number:
 ESAC10MDS56DUWH700SSGC35KLM

LUMINANCE DATA

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

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

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'

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 L_{70} 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.

