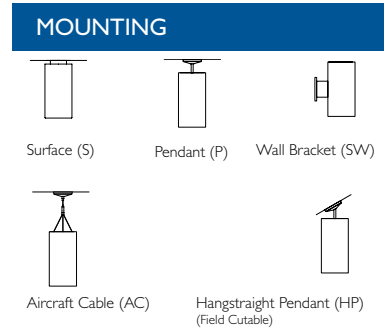
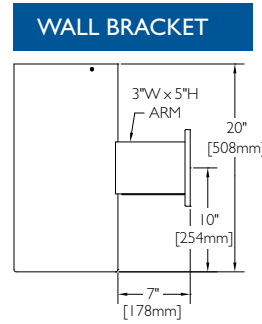
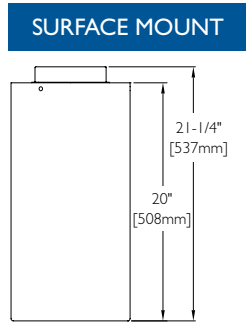
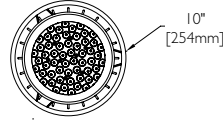


ESA-C10-WD- -56

Essentia® LED Downlight - Cylinder - Wide



FAMILY	PRODUCT	OPTIC	MOUNTING	LED COUNT (# OF LEDS)	SERIES	VOLTAGE	COLOR	REFLECTOR/ CONE FINISH ³	DRIVE CURRENT	OPTIONS
Essentia	C10	WD	S Surface P Pendant ¹ SW Wall Bracket HP Hangstraight Pendant ² AC1 5' Aircraft Cable AC2 10' Aircraft Cable AC3 15' Aircraft Cable	56	D	U 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 2700K ⁴ 30K 3000K ⁴ 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	4741	4041	3556	3031	3271	2788	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	5993	5109	4495	3832	4135	3525	134	1.14	0.66	0.58	0.52	115,000	88%

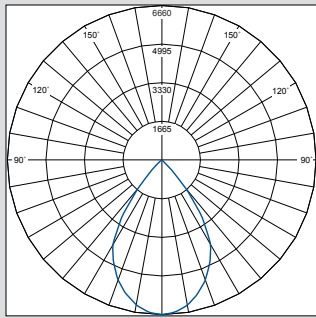
* For recommended lumen maintenance factor data see TD-14



ESA-C10-WD- -56

Essentia® LED Downlight - Cylinder - Wide

PHOTOMETRICS



ESAC10WDS56DUWH700SSGC35K

LED Count	56
Efficacy	47 Lm/W
S/M	0.47
Color Temperature	3500K
Drive Current	700mA
Delivered Lumens	6329
Test Number:	
ESAC10WDS56DUWH700SSGC35K	

LUMINANCE DATA

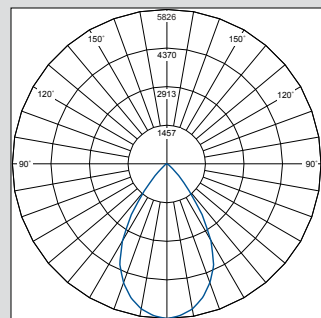
Vertical Angle	Average
45°	15065
55°	1195
65°	645
75°	0
85°	0

CANDELA DISTRIBUTION

Degrees	CD
0°	6039
5°	5953
15°	5419
25°	4446
35°	2754
45°	540
55°	35
65°	14
75°	0
85°	0
90°	0

CONE OF LIGHT

Distance from Workplane	Footcandles	Beam Diameter
6'	168	3.0'
8'	94	4.0'
10'	60	5.0'
12'	42	6.0'
14'	31	7.0'



ESAC10WDS56DUWH700SSGC35KLM

LED Count	56
Efficacy	41 Lm/W
S/M	0.98
Color Temperature	3500K
Drive Current	700mA
Delivered Lumens	5485
Test Number:	
ESAC10WDS56DUWH700SSGC35KLM	

LUMINANCE DATA

Vertical Angle	Average
45°	15816
55°	5494
65°	2395
75°	594
85°	127

CANDELA DISTRIBUTION

Degrees	CD
0°	5225
5°	5150
15°	4685
25°	3754
35°	2087
45°	567
55°	160
65°	51
75°	8
85°	0.6
90°	0

CONE OF LIGHT

Distance from Workplane	Footcandles	Beam Diameter
6'	145	2.9'
8'	82	3.9'
10'	52	4.9'
12'	36	5.9'
14'	27	6.8'

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.

