AEC ILLUMINATION

light life

ECOARKE

MODEL: ECOARKE

DOC NO:

DATE: 03-2020

KEY FEATURES:

- Dust Protection - IP66
- IES Classification Type II, III, IV
- Optical System - Removable
- Controls - Fix / 0-10 / DALI
- Voltage 110V - 277V (347V and 480V optional)
- SPD - 10kV - 10kA
- CRI - >70
- CCT - 3000K / 4000K
- Switch Off Connector
- Operating Temp: -40°F (-40°C) to 95°F (35°C)
- Lifetime - L90B10 > 100 000 h

1. MODEL	2. OPTICS	3. CCT	4. CURRENT	5. MODULES	6. VOLTAGE	7. MOUNT
ECAR						

1. MODEL
ECOARKE

2. OPTICAL SYSTEM
STE-S (IES TYPE II)
STE-M (IES TYPE II)
STW (IES TYPE II)
STU-S (IES TYPE II)
STU-M (IES TYPE II)
SV (IES TYPE II)
OP-DX (IES TYPE III)
OP-SX (IES TYPE III)
S05 (IES TYPE IV)

3. CCT
3 - 3000K
4 - 4000K

4. CURRENT
.5 - 525 mA
.7 - 700 mA
.xxx - custom

5. MODULES
1M - 1 Module
2M - 2 Modules
3M - 3 Modules
4M - 4 Modules

6. VOLTAGE
1V - 110V - 277V
3V - 347V
4V - 480V

7. MOUNTING
M1C - 1 5/8" x 4"

8. CONTROLS	9. OPTIONS	10. FINISH

8. CONTROLS
F - Fixed power not dimmable.
DA - Automatic dimming.
DAC - Custom DA profile.
FLC - Constant light flux.
DALI - Digital dimming interface DALI.
D010 - 0V-10V Dimming.
MSI - Internal Motion Sensor.

9. OPTIONS
DPG - Prismatic Glass
HSS - House Side Shield
BRD - Bird spike
C80 - CRI >80

10. COLOR
C.01 - Graphite Gray
C.02 - Sanity Black
C.03 - Metallic Silver
C.2B - Satiny Gray
C.30 - Steel Gray
C.UW - UW Brown

CO.RAL.... - ADD NUMBER
CUS - CUSTOM

PROJECT NAME: _____

☐ APPROVED
☐ APPROVED AS NOTED
☐ REJECTED
☐ APPROVED BY:

REMARKS:

3000K

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 3000K, lm)	RATED LUMINAIRE POWER[1] (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX[2] (Tj=85°C, 3000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
Eco Arke 0F2H1 (**OPTICS**) 3.5-1M	525	STU-M STU-S S05 SV	1710	16	106	1990	13
Eco Arke 0F2H1 (**OPTICS**) 3.5-2M			3370	30.5	110	4020	26
Eco Arke 0F2H1 (**OPTICS**) 3.5-3M			5040	44	114	6030	39
Eco Arke 0F2H1 (**OPTICS**) 3.5-4M			6520	57	114	8040	52
Eco Arke 0F2H1 (**OPTICS**) 3.7-1M	700		2200	21.5	102	2558	18
Eco Arke 0F2H1 (**OPTICS**) 3.7-2M			4310	40	107	5116	36
Eco Arke 0F2H1 (**OPTICS**) 3.7-3M			6410	58	110	7674	54
Eco Arke 0F2H1 (**OPTICS**) 3.7-4M			8190	76	107	10232	72
Eco Arke 0F3 (**OPTICS**) 3.5-1M	525	STE-M STE-S STW	2380	21.5	110	2701	17
Eco Arke 0F3 (**OPTICS**) 3.5-2M			4710	39	120	5402	36
Eco Arke 0F3 (**OPTICS**) 3.5-3M			6830	57	119	8103	54
Eco Arke 0F3 (**OPTICS**) 3.5-4M			9070	76	119	10804	72
Eco Arke 0F3 (**OPTICS**) 3.7-1M	700		2980	28	106	3420	24
Eco Arke 0F3 (**OPTICS**) 3.7-2M			5950	52	114	6840	48
Eco Arke 0F3 (**OPTICS**) 3.7-3M			8580	76	112	10260	72
Eco Arke 0F3 (**OPTICS**) 3.7-4M			11440	102	112	13680	96
Eco Arke 0F3 (**OPTICS**) 3.5-1M	525	OP-DX OP-SX	4710	39	120	5190	35
Eco Arke 0F3 (**OPTICS**) 3.5-2M			9070	76	119	10380	70

4000K

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER[1] (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX[2] (Tj=85°C, 4000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
Eco Arke 0F2H1 (**OPTICS**) 4.5-1M	525	STU-M STU-S S05 SV	1840	16	115	2184	13
Eco Arke 0F2H1 (**OPTICS**) 4.5-2M			3620	30.5	119	4369	26
Eco Arke 0F2H1 (**OPTICS**) 4.5-3M			5420	44	123	6553	39
Eco Arke 0F2H1 (**OPTICS**) 4.5-4M			7010	57	123	8737	53
Eco Arke 0F2H1 (**OPTICS**) 4.7-1M	700		2370	21.5	110	2765	18
Eco Arke 0F2H1 (**OPTICS**) 4.7-2M			4630	40	116	5530	36
Eco Arke 0F2H1 (**OPTICS**) 4.7-3M			6890	58	119	8295	53
Eco Arke 0F2H1 (**OPTICS**) 4.7-4M			8810	76	116	11060	71
Eco Arke 0F3 (**OPTICS**) 3.5-1M	525	STE-M STE-S STW	2560	21.5	119	2950	17
Eco Arke 0F3 (**OPTICS**) 3.5-2M			5060	39	130	5901	35
Eco Arke 0F3 (**OPTICS**) 3.5-3M			7340	57	129	8852	53
Eco Arke 0F3 (**OPTICS**) 3.5-4M			9750	76	128	11803	70
Eco Arke 0F3 (**OPTICS**) 3.7-1M	700		3200	28	114	3735	24
Eco Arke 0F3 (**OPTICS**) 3.7-2M			6400	52	123	7470	47
Eco Arke 0F3 (**OPTICS**) 3.7-3M			9230	76	121	11205	71
Eco Arke 0F3 (**OPTICS**) 3.7-4M			12300	102	121	14940	95
Eco Arke 0F3 (**OPTICS**) 3.5-1M	525	OP-DX OP-SX	5060	39	129	5214	35
Eco Arke 0F3 (**OPTICS**) 3.5-2M			9750	16	128	10428	70

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance.
In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous avvflux of the luminaire and the power absorbed by the input powersupply unit.
For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

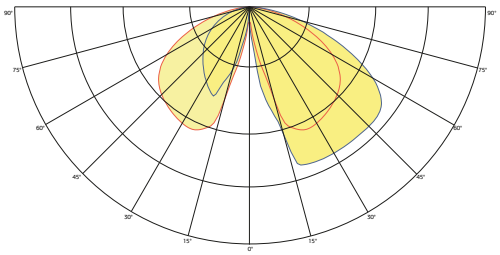
PROJECT NAME: _____

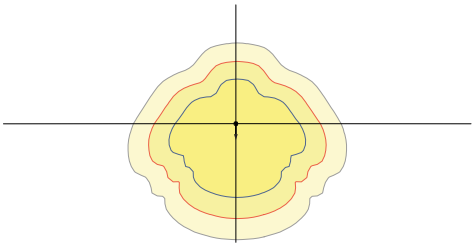
- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ REJECTED
- ☐ APPROVED BY:

Note:
1:Rated data obtained in laboratory
2:Rated data extrapolated from LED manufacturer datasheet.
The characteristics of the product listed in this product sheet are subjected to change without notice.
They will have to be confirmed in case of order.
Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

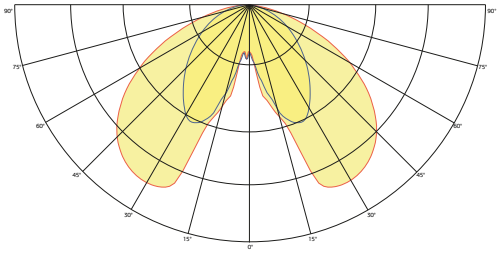
OPTICAL SYSTEMS

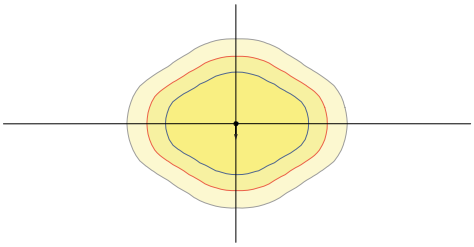
OPTICS STORY S05 (IES TYPE III)



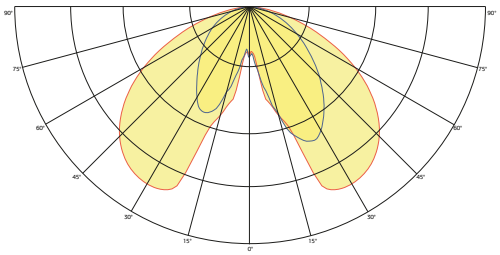


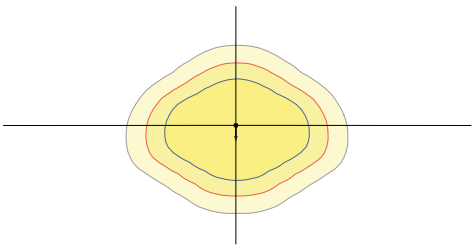
OPTICS STORY HC-S (IES TYPE III)



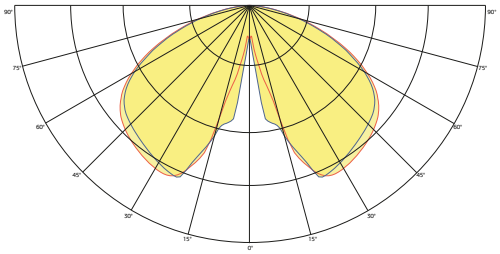


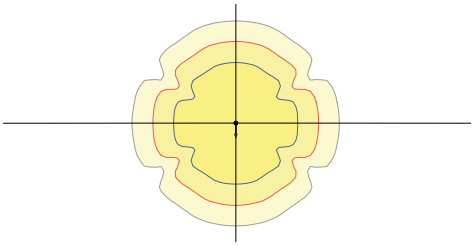
OPTICS STORY HC-ST (IES TYPE III)





OPTICS STORY S (IES TYPE III)





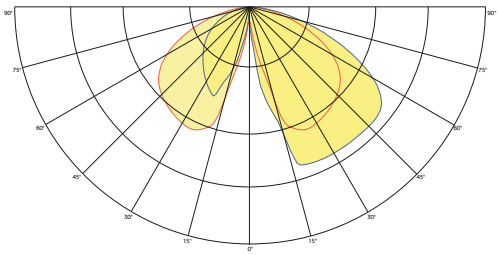
PROJECT NAME: _____

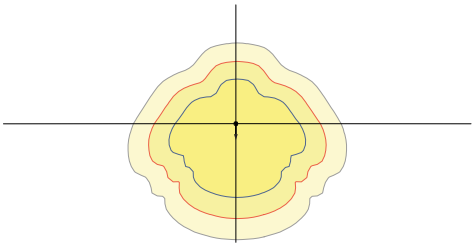
☐ APPROVED
☐ APPROVED AS NOTED
☐ REJECTED
☐ APPROVED BY:

REMARKS:

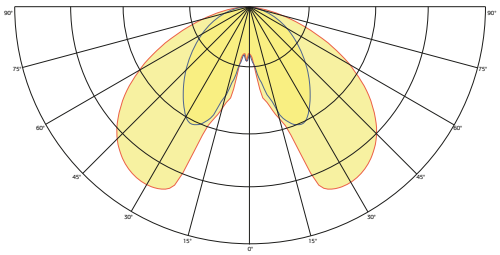
OPTICAL SYSTEMS

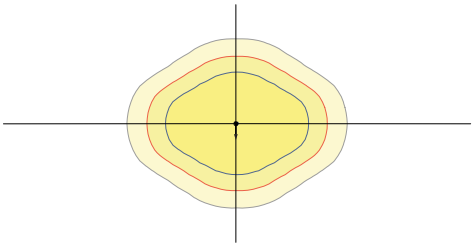
OPTICS STORY S05 (IES TYPE III)



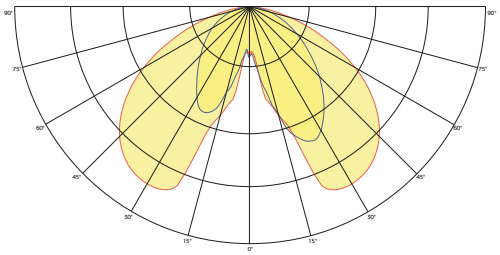


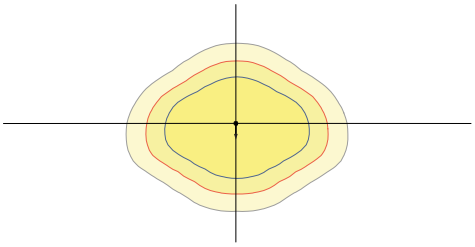
OPTICS STORY HC-S (IES TYPE III)



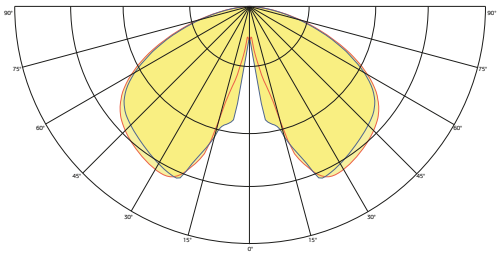


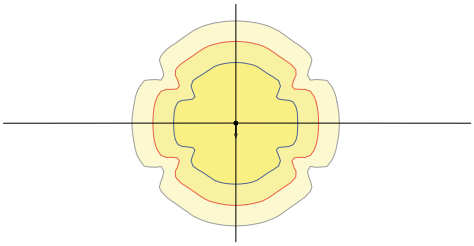
OPTICS STORY HC-ST (IES TYPE III)





OPTICS STORY S (IES TYPE III)





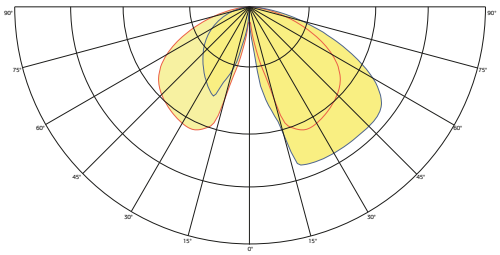
PROJECT NAME: _____

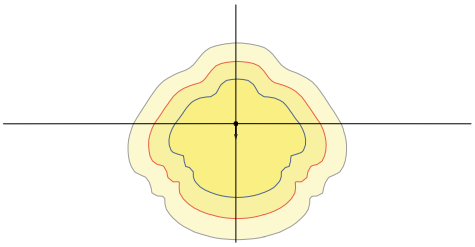
☐ APPROVED
☐ APPROVED AS NOTED
☐ REJECTED
☐ APPROVED BY:

REMARKS:

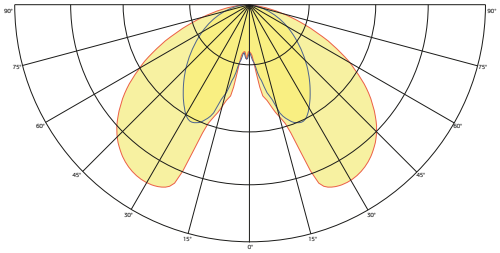
OPTICAL SYSTEMS

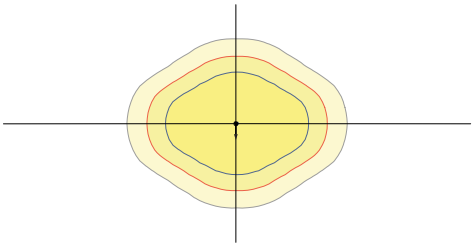
OPTICS STORY S05 (IES TYPE III)



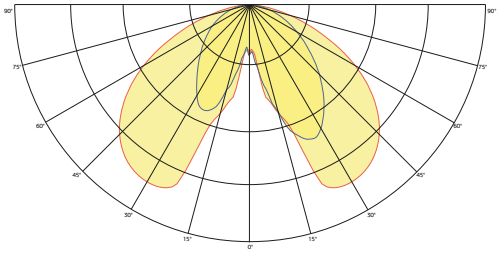


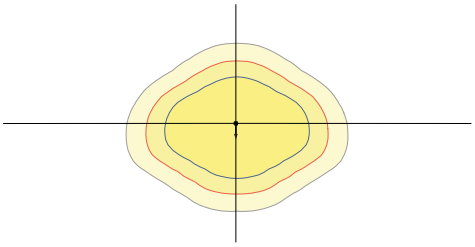
OPTICS STORY HC-S (IES TYPE III)



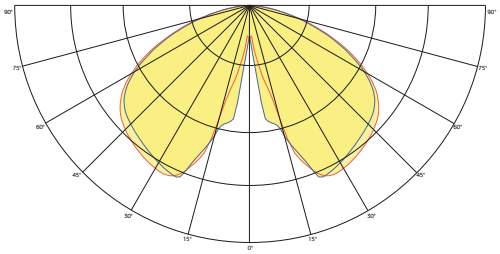


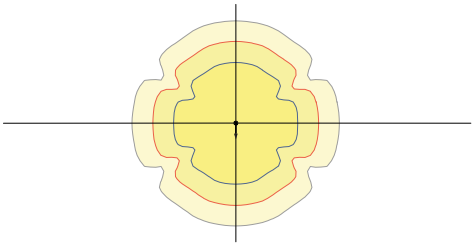
OPTICS STORY HC-ST (IES TYPE III)





OPTICS STORY S (IES TYPE III)



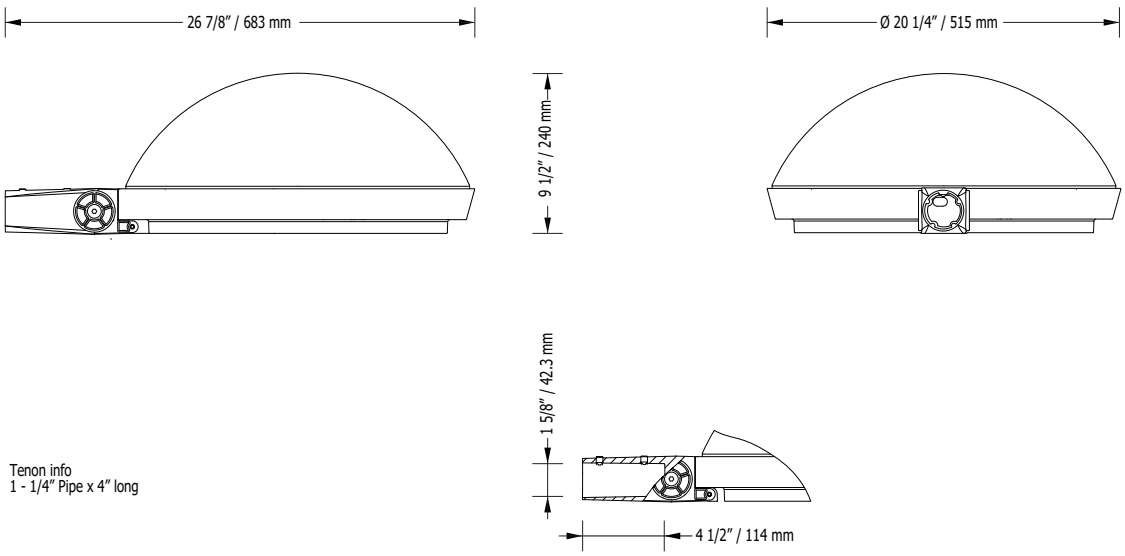


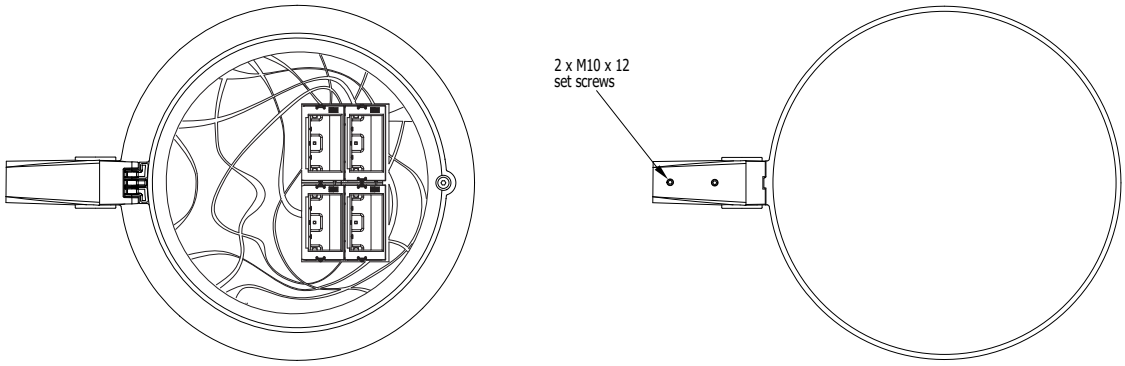
PROJECT NAME: _____

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ REJECTED
- ☐ APPROVED BY:

REMARKS:

DRAWING - MECHANICAL PROPERTIES





Applications: Street and urban lighting.

Tilt angle: 0° ÷ 20°

Weight: 24.25 Lbs / 11 kg

EPA: Side: 1.2 ft² (0.11m²)
Top: 2.7 ft² (0.25m²)
(Cross Section Surface)
Use Drag coefficient factor - 0.5

Mounting: M2B - 2 3/8" x 4 "L (42 mm x 100 mm L)

Power Factor: >0.9 (full load)

Power cable: 12GA

Connector-IP68: Cable Dia. 0.27"-0.39"
(7mm-10mm)

Optical unit lifetime (Ta: 77°F/25°C)
525mA: L90B10 ≥ 100 000 h
(Including critical failures)
L90 > 100 000 h, TM-21
700mA: L90B10 ≥ 100 000 h
(Including critical failures)
L90 > 100 000 h, TM-21

PROJECT NAME: _____

- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ REJECTED
- ☐ APPROVED BY: