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Photometric Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995
CIE 15-2004, ANSI C78.377-2017, IES TM-30-2015

Prepared For
ELEMENTAL LED INC, DBA DIODE LED

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Reno, NV 89521
United States

Catalog Number
Volante Canopy-100-T4-30x140 (4000K)

Order Number
12556990
Test Number
12556990.01

Test Date

2018-11-30

Prepared By

Austin Duff, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 3-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement



Luminaire Description: Square white metal housing
Lamp: 160 White LEDs with optics attached to each
Mounting: Pendant
Ballast/Driver: INVENTRONICS EUB-096S210ST

Luminaire



Summary of Results

Integrating Sphere

Luminous Flux:	14450 Lumens
Efficacy:	129.0 lm/w
CCT:	3989 K
CRI (Ra):	82.5

Electrical Data at 277 VAC

Test Temperature:	24.6 °C
Voltage:	277.0 VAC
Current:	0.4048 A
Power:	108.7 W
Power Factor:	0.969
Frequency:	60 Hz
Current THD:	6.62 %



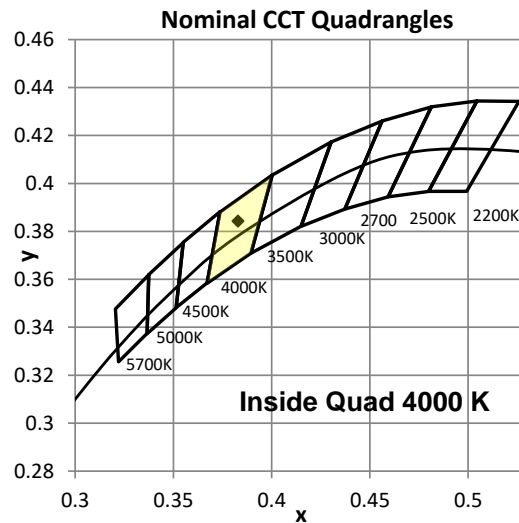
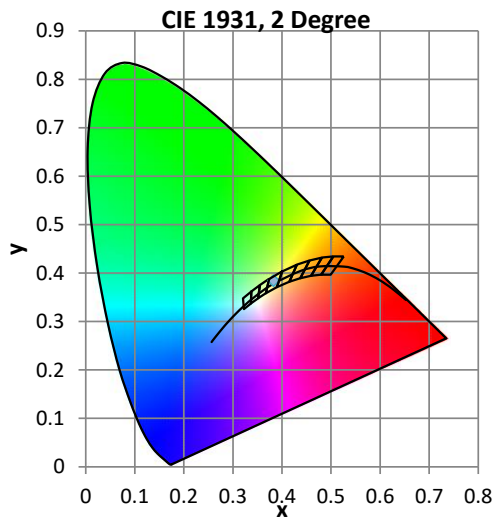
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	0.9352 A	112.0 W	0.998	60 Hz	5.05 %

Summary of Results

Total Output:	14450 Lumens	Chromaticity (x):	0.3828
Efficacy:	129.0 lm/w	Chromaticity (y):	0.3843
CCT:	3989 K	Chromaticity (u'):	0.2237
CRI (Ra):	82.5	Chromaticity (v'):	0.5052
CRI (R9):	7.2	TM-30 Rf:	81.5
Peak Wavelength:	454 nm	TM-30 Rg:	93.5
Dominant Wavelength:	578 nm	Duv:	0.0028
S/P Ratio:	1.68		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.5	80.5	89.3	95.4	80.2	80.0	84.8	86.3	63.9	7.2	74.0	78.4	58.4	82.8	97.6	73.9

