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Integrating Sphere 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

Andrew Lassen
885 Trademark Dr
Reno, NV 89521
United States

Catalog Number
Volante Canopy-200-T4-30x140 (5000K)

Order Number
12556990
Test Number
12556990.03

Test Date

2018-10-30

Prepared By

Austin Duff, Technician

Approved By

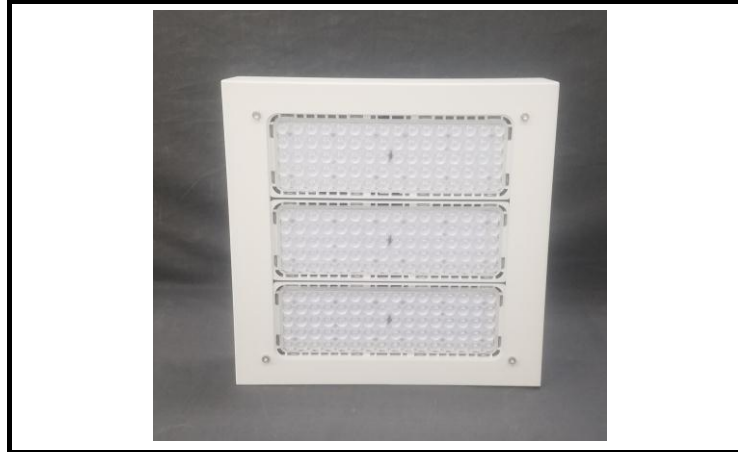
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Square white metal housing
Lamp: 260 White LEDs with optics attached to each
Mounting: Pendant
Ballast/Driver: INVENTRONICS EUB-240S420DT

Luminaire



Summary of Results

Radiant Flux:	83180 mW
Luminous Flux:	26510 lm
Luminaire Efficacy:	116.3 lm/W
CCT:	5139 K
CRI (Ra):	83.9
Chromaticity (x):	0.3417
Chromaticity (y):	0.3564
Chromaticity (u):	0.2073
Chromaticity (v):	0.3243
Duv:	0.0032

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	1.906 A
Power:	228.0 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	6.47 %

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



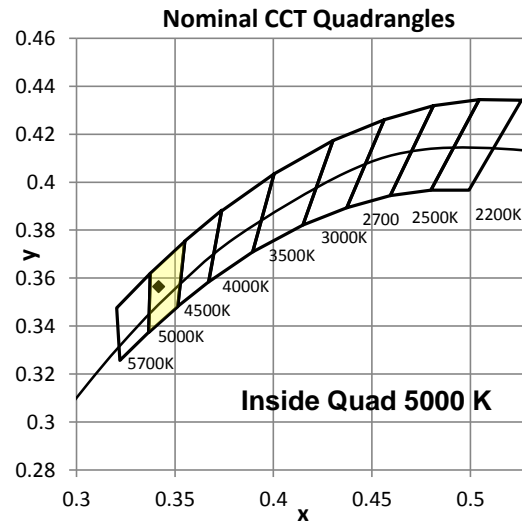
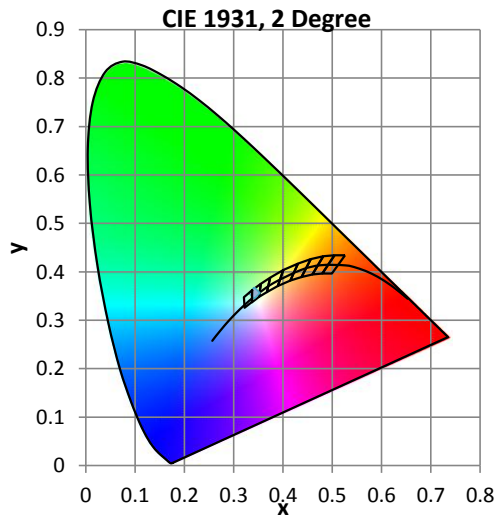
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	1.906 A	228.0 W	0.996	60 Hz	6.47 %

Summary of Results

Total Output:	26510 Lumens	Chromaticity (x):	0.3417
Efficacy:	116.3 lm/w	Chromaticity (y):	0.3564
CCT:	5139 K	Chromaticity (u'):	0.2073
CRI (Ra):	83.9	Chromaticity (v'):	0.4865
CRI (R9):	9.6	TM-30 Rf:	82
Peak Wavelength:	454 nm	TM-30 Rg:	93.6
Dominant Wavelength:	567 nm	Duv:	0.0032
S/P Ratio:	2.02		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.9	82.0	90.1	94.5	82.0	82.3	85.4	87.1	67.4	9.6	75.8	81.1	61.8	84.4	97.3	76.4

