



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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
SKY40-0896
Order Number
12559022
Test Number
12559022.03

Test Date

2018-10-29

Prepared By

Austin Duff, Technician

Approved By

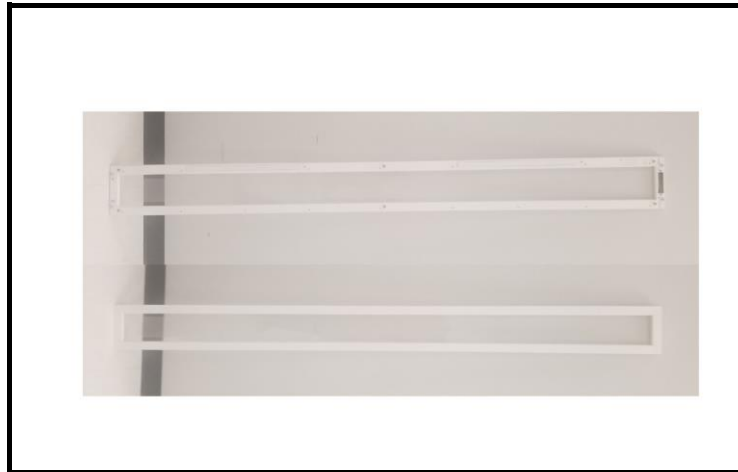
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Rectangular metal housing and patterned plastic lens
Lamp: 476 White LEDs
Mounting: Pendant
Ballast/Driver: Internal

Luminaire



Summary of Results

Radiant Flux:	14540 mW
Luminous Flux:	4802 lm
Luminaire Efficacy:	125.9 lm/W
CCT:	4122 K
CRI (Ra):	82.9
Chromaticity (x):	0.3757
Chromaticity (y):	0.3757
Chromaticity (u):	0.2224
Chromaticity (v):	0.3336
Duv:	0.0005

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.3246 A
Power:	38.15 W
Power Factor:	0.979
Frequency:	60 Hz
Current THD:	6.78 %

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



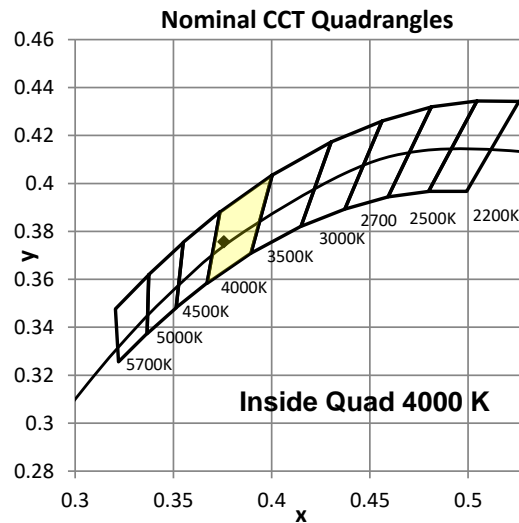
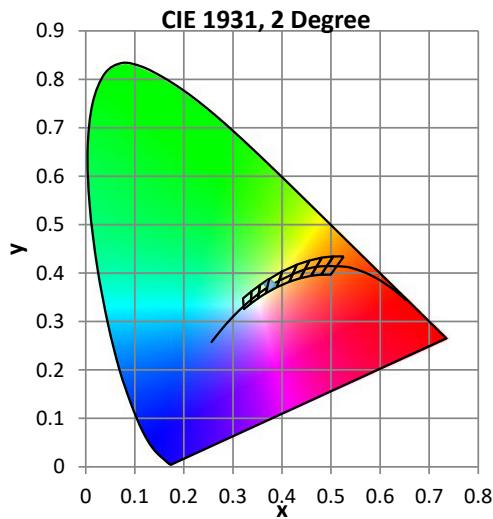
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.3246 A	38.15 W	0.979	60 Hz	6.78 %

Summary of Results

Total Output:	4802 Lumens	Chromaticity (x):	0.3757
Efficacy:	125.9 lm/w	Chromaticity (y):	0.3757
CCT:	4122 K	Chromaticity (u'):	0.2224
CRI (Ra):	82.9	Chromaticity (v'):	0.5004
CRI (R9):	6.3	TM-30 Rf:	80
Peak Wavelength:	456 nm	TM-30 Rg:	91.5
Dominant Wavelength:	578 nm	Duv:	0.0005
S/P Ratio:	1.78		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.9	81.9	92.7	94.8	78.5	81.3	88.6	83.3	62.0	6.3	81.8	77.6	59.6	85.3	97.9	75.1

