

PHOENIX PRODUCTS LLC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

CF-125-MF-120-277-NW

PROJECT NUMBER

G104357589

REPORT NUMBER

104357589CHI-025

ISSUE DATE

2/12/2021

REVISED DATE

None

TEST DATES

02/05/2021.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

© 2017 INTERTEK



REPORT NUMBER

104357589CHI-025

MODEL NUMBER(s)

CF-125-MF-120-277-NW

REPORT RENDERED TO:

PHOENIX PRODUCTS LLC
8711 W PORT AVE.
MILWAUKEE, WI, 53224
USA

STATEMENT OF LIMITATION

NVLAP Lab Code 600186-0. 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.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01080058-1.

TEST STANDARDS

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



Ian Smith
Engineer
Lighting Division

Reviewer:



Jeff Davis
NA Technical Lead
Lighting Division

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

SAMPLE INFORMATION

REPORT NO. 104357589CHI-025

ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH01272021125026	CF-125-MF-120-277-NW	RTG Command Flood Luminaire	Production	1/27/2021

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	CF-125-MF-120-277-NW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

REPORT NO. 104357589CHI-025

PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	CF-125-MF-120-277-NW
Product Description:	RTG Command Flood Luminaire
LED Model No.:	Luxeon 5050
Driver Model No.:	Inventronics EUM-150
Light Source:	LED

Criteria	Results
Light Output (lumens)	14520.9
Input Power (W) @ 120 (Vac)	121.15
Lumen Efficacy (lm/W)	119.9
Input Power Factor () @ 120 (Vac)	0.998

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

REPORT NO. 104357589CHI-025

Test Configuration	Tested Model No.	Pass/Fail/NA
1	CF-125-MF-120-277-NW	NA

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

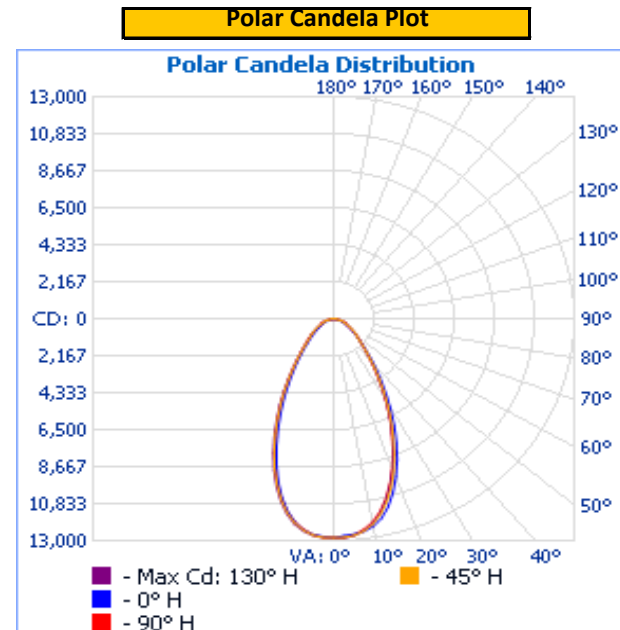
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.0	1011.3	121.15	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
14520.9	119.9

INTENSITY SUMMARY - CANDELA

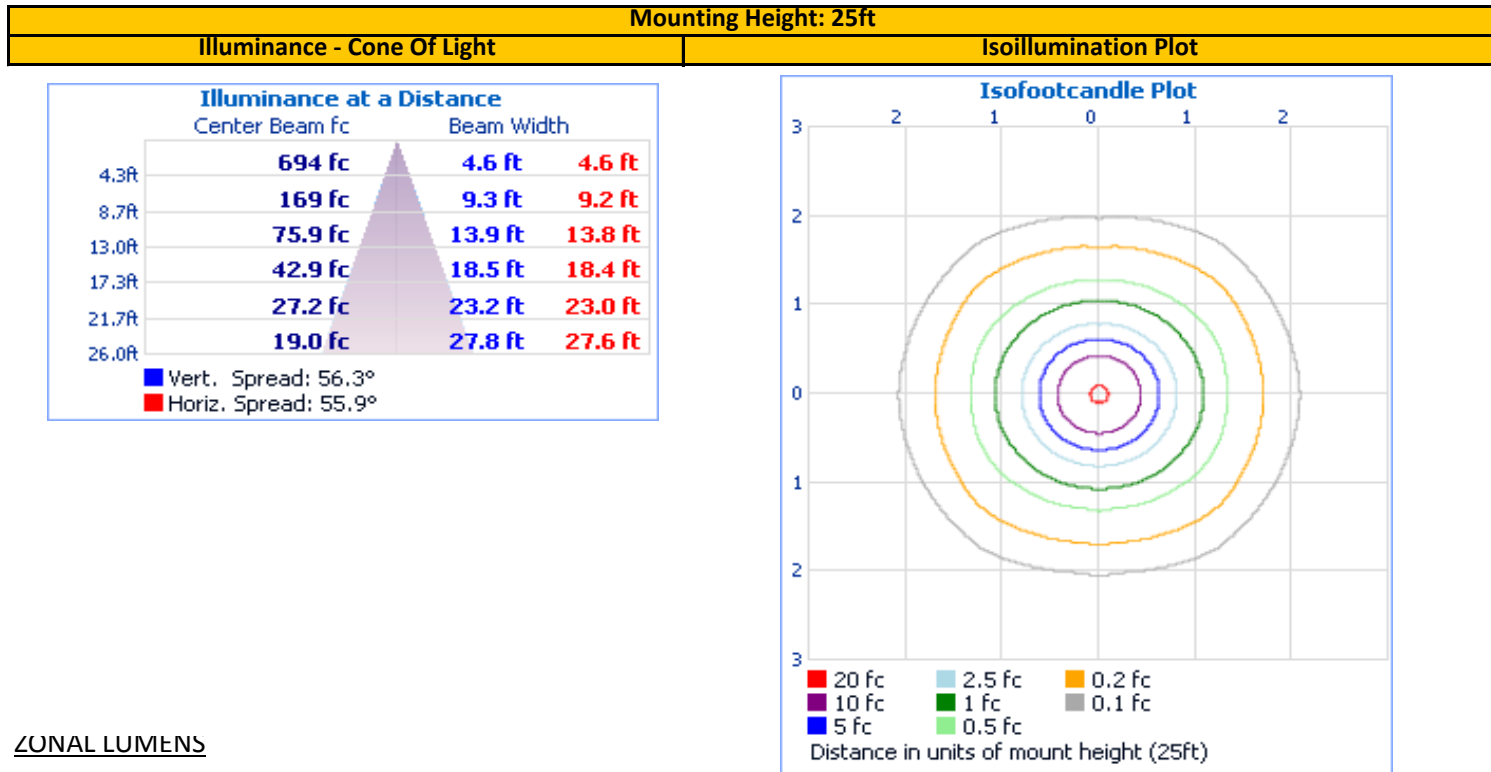
Angle	0	25	45	65	90
0	12825	12825	12825	12825	12825
5	12660	12715	12729	12701	12689
10	12337	12231	12213	12134	12077
15	11377	11114	11088	10963	10890
20	9822	9467	9492	9343	9243
25	8019	7641	7622	7528	7431
30	6169	5860	5824	5760	5715
35	4530	4283	4269	4238	4187
40	3228	3062	3080	3056	3026
45	2300	2196	2233	2229	2250
50	1673	1626	1681	1760	1758
55	1252	1257	1369	1341	1289
60	938	972	1074	962	937
65	692	744	759	734	749
70	496	549	569	718	682
75	336	373	466	490	469
80	187	229	251	244	227
85	75	98	113	103	97
90	0	0	0	0	0
95	0	0	0	0	0
100	0	0	0	0	0
105	0	0	0	0	0
110	0	0	0	0	0
115	0	0	0	0	0
120	0	0	0	0	0
125	0	0	0	0	0
130	0	0	0	0	0
135	0	0	0	0	0
140	0	0	0	0	0
145	0	0	0	0	0
150	0	0	0	0	0
155	0	0	0	0	0
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

Entire luminous intensity matrix found in .IES file



REPORT NO. 104357589CHI-025

ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	7,678.4	52.9%	0-10	1194.8	8.2%
0-40	10,332.1	71.2%	10-20	3046.9	21.0%
0-60	13,221.9	91.1%	20-30	3436.7	23.7%
60-90	1,298.9	8.9%	30-40	2653.7	18.3%
70-100	557.3	3.8%	40-50	1731.2	11.9%
90-120	0.0	0.0%	50-60	1158.6	8.0%
0-90	14,520.9	100.0%	60-70	741.6	5.1%
90-180	0.0	0.0%	70-80	441.3	3.0%
0-180	14,520.9	100.0%	80-90	116.0	0.8%
			90-100	0.0	0.0%
			100-110	0.0	0.0%
			110-120	0.0	0.0%
			120-130	0.0	0.0%
			130-140	0.0	0.0%
			140-150	0.0	0.0%
			150-160	0.0	0.0%
			160-170	0.0	0.0%
			170-180	0.0	0.0%

EQUIPMENT LIST

REPORT NO. 104357589CHI-025

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Yokogawa Power Meter	WT210	146919	7/1/2020	7/1/2021
2	Omega Thermometer	DPI8-C24	146920	10/1/2020	10/1/2021
3	LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
4	Newport Thermohygrometer	iServer	146958	9/30/2020	9/30/2021
5	Pacific AC Power Supply	118-ACX	CHI0153	VBU	VBU

Note: Standard sources listed above are traceable to NIST: National Institute of Standards and Technology

REVISION HISTORY

#	Revision Date	Updated By	Reviewed By	Description of Change
---	None	---	---	---
---	---	---	---	---
---	---	---	---	---