

PHOENIX PRODUCTS LLC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

CF-125-WF-120-277-WW

PROJECT NUMBER

G104357589

REPORT NUMBER

104357589CHI-029

ISSUE DATE

2/12/2021

REVISED DATE

None

TEST DATES

02/05/2021.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104357589CHI-029

MODEL NUMBER(s)

CF-125-WF-120-277-WW

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

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SAMPLE INFORMATION

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ITEMS RECEIVED

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

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	CF-125-WF-120-277-WW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	CF-125-WF-120-277-WW
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)	13236.7
Input Power (W) @ 120 (Vac)	117.28
Lumen Efficacy (lm/W)	112.9
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

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

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

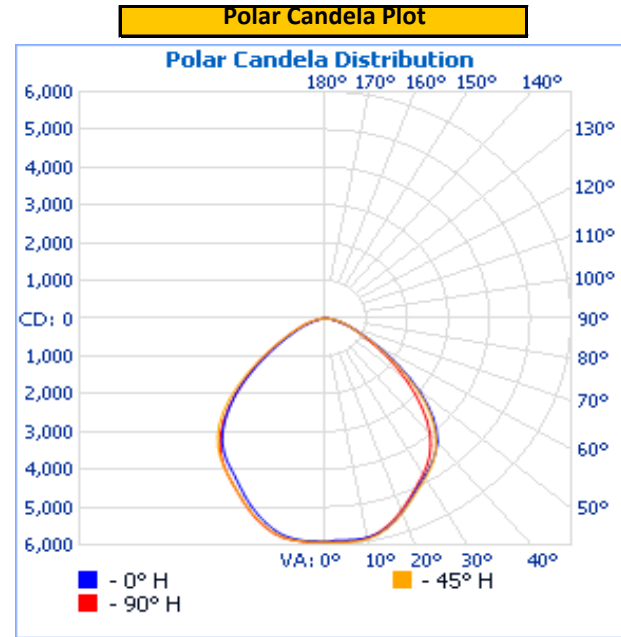
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.1	978.3	117.28	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
13236.7	112.9

INTENSITY SUMMARY - CANDELA

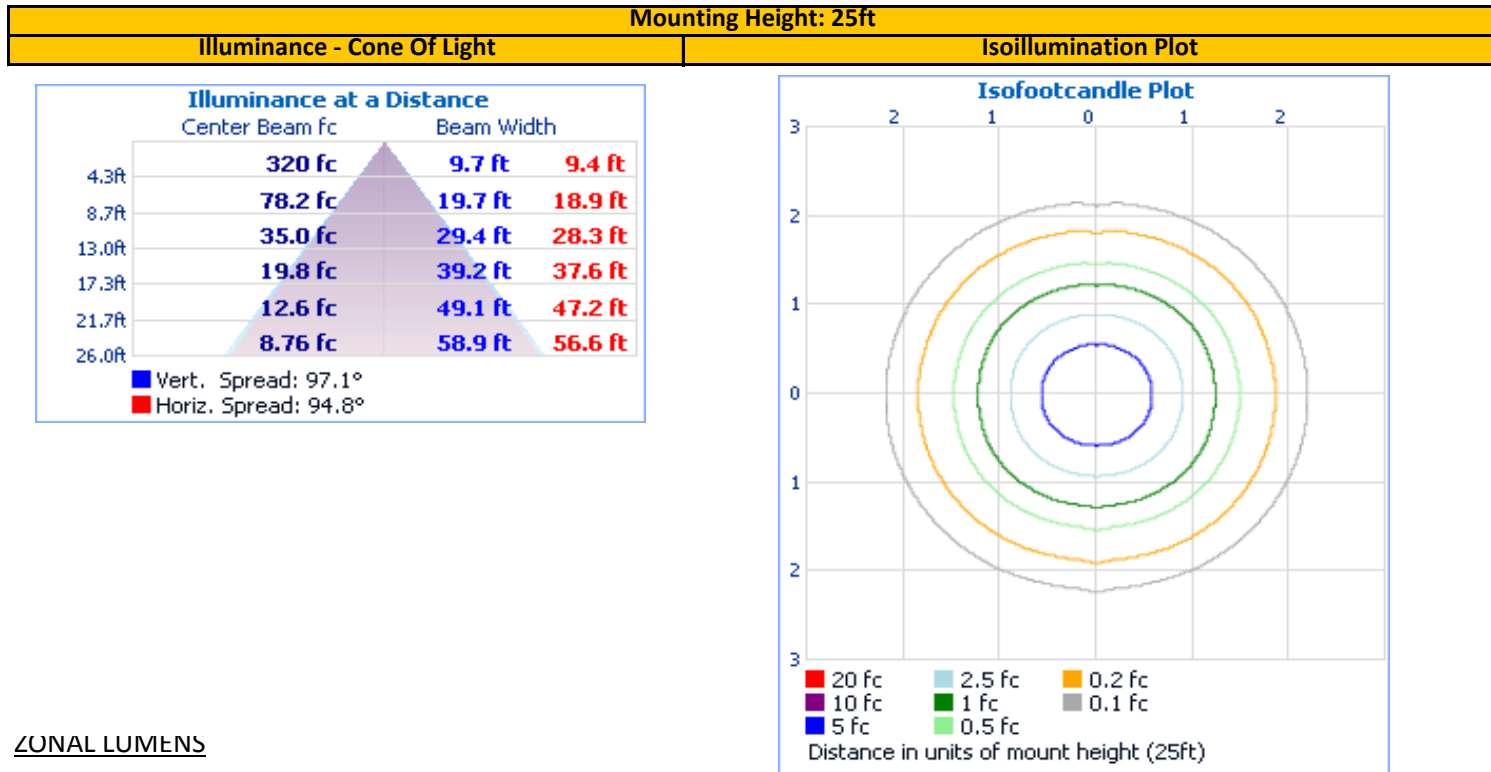
Angle	0	22.5	45	67.5	90
0	5920	5920	5920	5920	5920
5	5896	5928	5949	5929	5942
10	5902	5915	5938	5906	5902
15	5760	5739	5775	5744	5715
20	5477	5451	5486	5472	5417
25	5124	5122	5159	5144	5074
30	4840	4844	4886	4846	4770
35	4582	4573	4597	4533	4436
40	4258	4194	4199	4091	3967
45	3723	3662	3650	3523	3330
50	3010	2916	2917	2789	2622
55	2194	2082	2095	2002	1942
60	1508	1424	1436	1374	1340
65	984	941	948	919	904
70	619	603	619	659	628
75	367	367	428	427	378
80	181	195	203	188	173
85	68	71	75	76	75
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



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	4,520.0	34.1%	0-10	565.1	4.3%
0-40	7,320.4	55.3%	10-20	1606.6	12.1%
0-60	11,810.0	89.2%	20-30	2348.3	17.7%
60-90	1,426.8	10.8%	30-40	2800.4	21.2%
70-100	498.3	3.8%	40-50	2682.3	20.3%
90-120	0.0	0.0%	50-60	1807.3	13.7%
0-90	13,236.7	100.0%	60-70	928.5	7.0%
90-180	0.0	0.0%	70-80	409.7	3.1%
0-180	13,236.7	100.0%	80-90	88.5	0.7%
			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

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#	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
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