

PHOENIX PRODUCTS LLC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

CF-125-MF-120-277-WW

PROJECT NUMBER

G104357589

REPORT NUMBER

104357589CHI-028

ISSUE DATE

2/12/2021

REVISED DATE

None

TEST DATES

02/04/2021.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104357589CHI-028

MODEL NUMBER(s)

CF-125-MF-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-MF-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-MF-120-277-WW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	CF-125-MF-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)	13051.3
Input Power (W) @ 120 (Vac)	117.35
Lumen Efficacy (lm/W)	111.2
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-MF-120-277-WW	NA

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

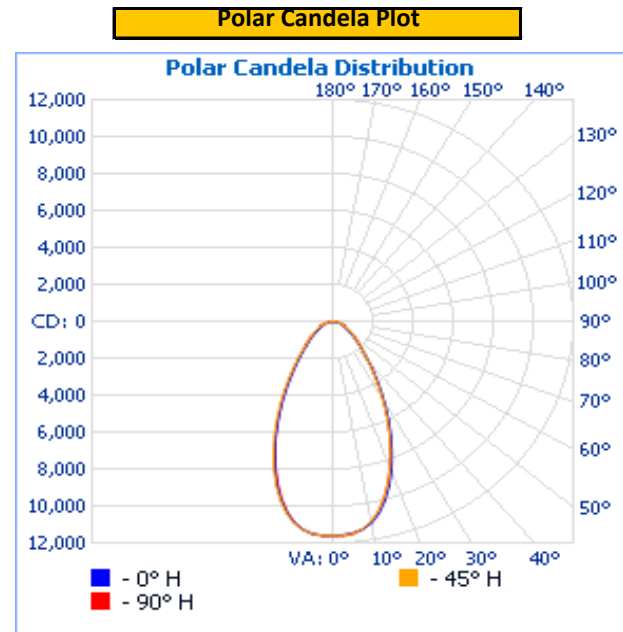
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.0	979.4	117.35	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
13051.3	111.2

INTENSITY SUMMARY - CANDELA

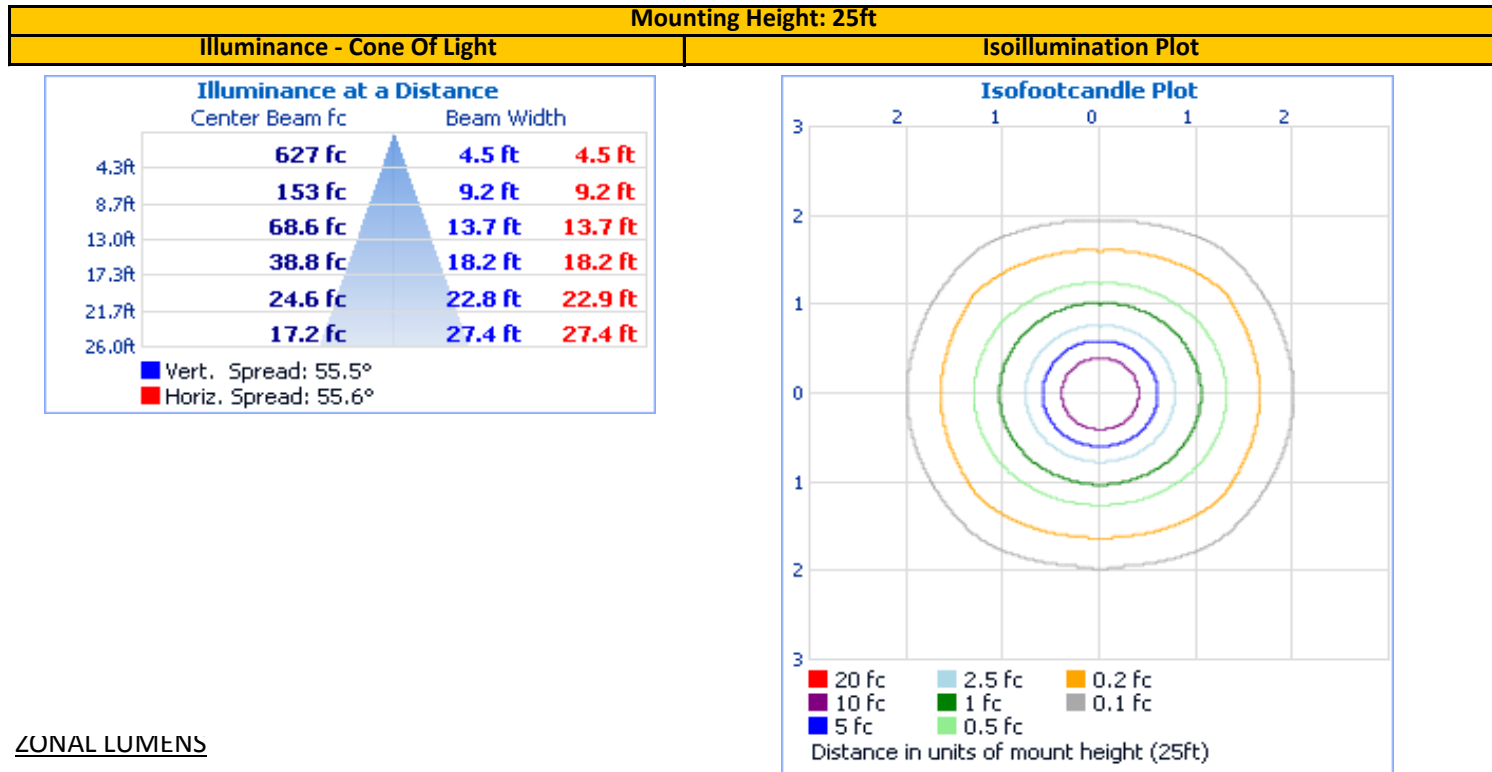
Angle	0	25	45	65	90
0	11599	11599	11599	11599	11599
5	11495	11490	11518	11500	11554
10	11097	10992	11013	10996	11038
15	10054	9872	9901	9868	9894
20	8588	8335	8394	8363	8350
25	6882	6681	6717	6722	6709
30	5243	5075	5094	5114	5134
35	3811	3680	3706	3726	3771
40	2725	2622	2665	2689	2712
45	1952	1890	1944	1968	1990
50	1431	1415	1476	1566	1562
55	1081	1103	1207	1231	1134
60	808	855	960	858	837
65	603	654	670	652	654
70	435	484	500	647	636
75	294	331	402	433	440
80	168	204	225	215	208
85	67	90	99	96	88
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	6,933.3	53.1%	0-10	1083.5	8.3%
0-40	9,303.7	71.3%	10-20	2757.4	21.1%
0-60	11,882.5	91.0%	20-30	3092.3	23.7%
60-90	1,168.8	9.0%	30-40	2370.4	18.2%
70-100	502.5	3.9%	40-50	1541.9	11.8%
90-120	0.0	0.0%	50-60	1037.0	7.9%
0-90	13,051.3	100.0%	60-70	666.3	5.1%
90-180	0.0	0.0%	70-80	397.3	3.0%
0-180	13,051.3	100.0%	80-90	105.2	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

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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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