

PHOENIX PRODUCTS LLC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

CF-125-SP-120-277-NW

PROJECT NUMBER

G104357589

REPORT NUMBER

104357589CHI-024

ISSUE DATE

2/12/2021

REVISED DATE

None

TEST DATES

2/2/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104357589CHI-024

MODEL NUMBER(s)

CF-125-SP-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

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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-SP-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-SP-120-277-NW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	CF-125-SP-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)	14103.4
Input Power (W) @ 120 (Vac)	121.13
Lumen Efficacy (lm/W)	116.4
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-SP-120-277-NW	NA

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

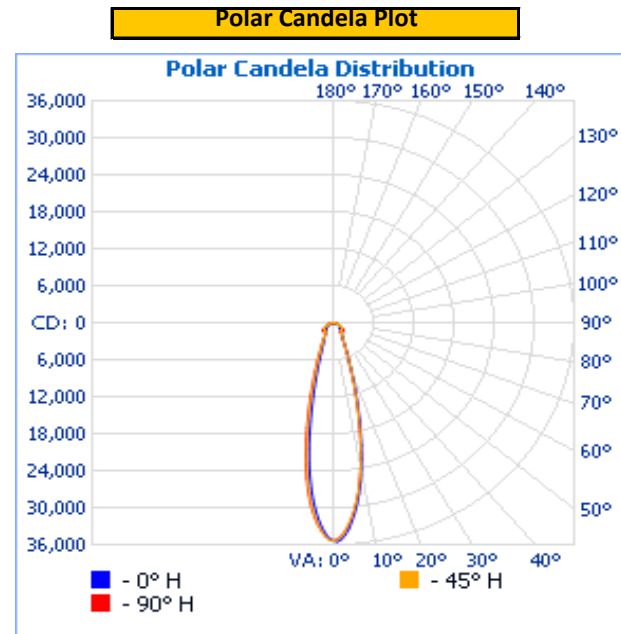
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.0	1011.2	121.13	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
14103.4	116.4

INTENSITY SUMMARY - CANDELA

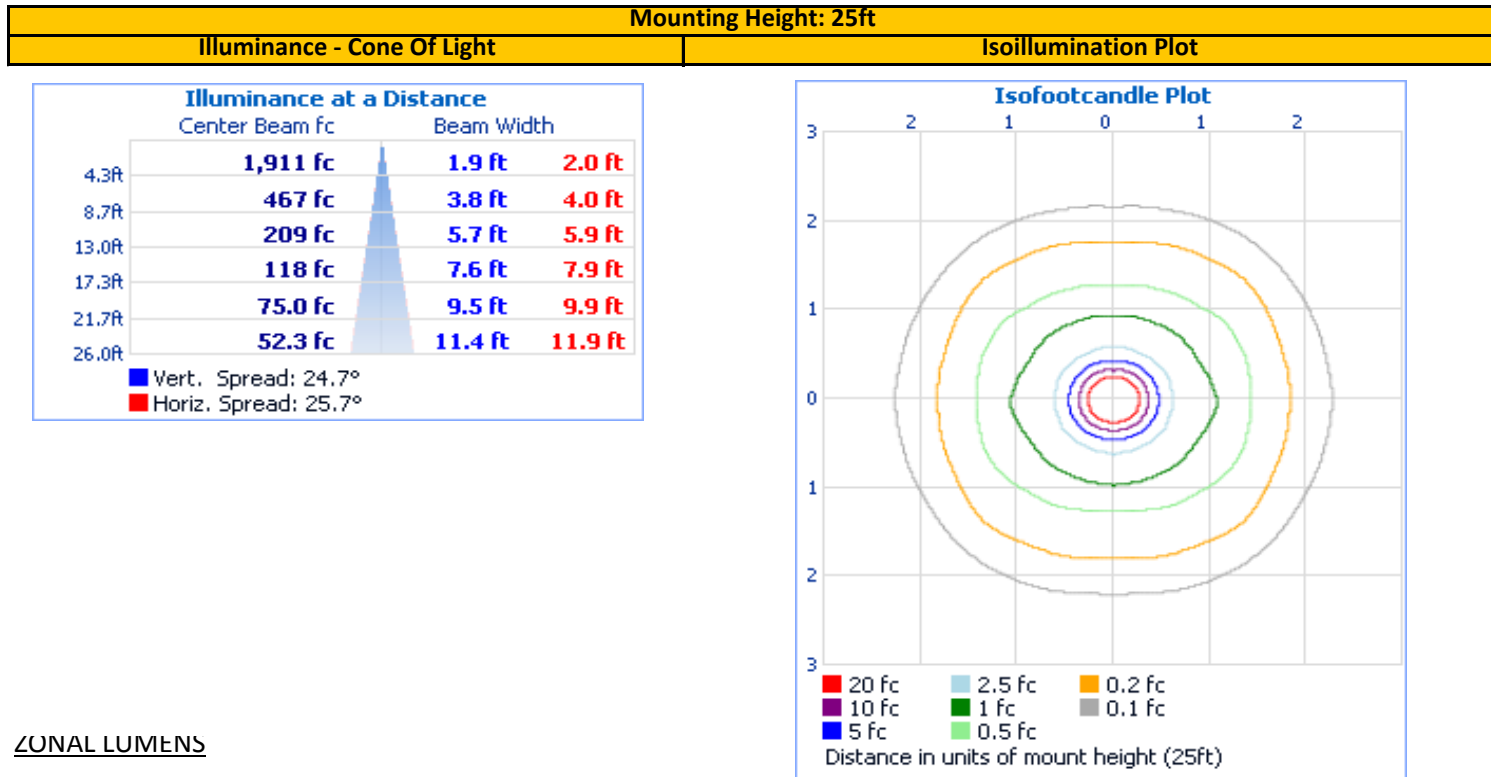
Angle	0	25	45	65	90
0	35327	35327	35327	35327	35327
5	32268	31371	31618	31628	31717
10	24323	23086	23716	23599	23465
15	14512	13614	13882	13956	13840
20	7499	7148	7430	7493	7394
25	4038	4114	4098	4176	4230
30	2833	2728	2807	2817	2716
35	2225	2097	2098	2156	2042
40	1874	1705	1878	1907	1819
45	1636	1639	1713	1752	1863
50	1375	1505	1563	1832	1980
55	1272	1416	1580	1739	1670
60	1120	1234	1452	1304	1202
65	926	1021	1076	980	968
70	699	759	794	804	840
75	492	542	633	606	530
80	274	368	380	327	293
85	102	135	138	130	115
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	8,362.9	59.3%	0-10	2737.7	19.4%
0-40	9,688.2	68.7%	10-20	3699.5	26.2%
0-60	12,364.5	87.7%	20-30	1925.7	13.7%
60-90	1,738.9	12.3%	30-40	1325.3	9.4%
70-100	747.3	5.3%	40-50	1328.0	9.4%
90-120	0.0	0.0%	50-60	1348.4	9.6%
0-90	14,103.4	100.0%	60-70	991.6	7.0%
90-180	0.0	0.0%	70-80	591.9	4.2%
0-180	14,103.4	100.0%	80-90	155.4	1.1%
			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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