

PHOENIX PRODUCTS LLC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

CF-125-SP-120-277-WW

PROJECT NUMBER

G104357589

REPORT NUMBER

104357589CHI-027

ISSUE DATE

2/12/2021

REVISED DATE

None

TEST DATES

2/5/2021

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104357589CHI-027

MODEL NUMBER(s)

CF-125-SP-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-SP-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-SP-120-277-WW	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	CF-125-SP-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)	12703.5
Input Power (W) @ 120 (Vac)	117.28
Lumen Efficacy (lm/W)	108.3
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-WW	NA

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

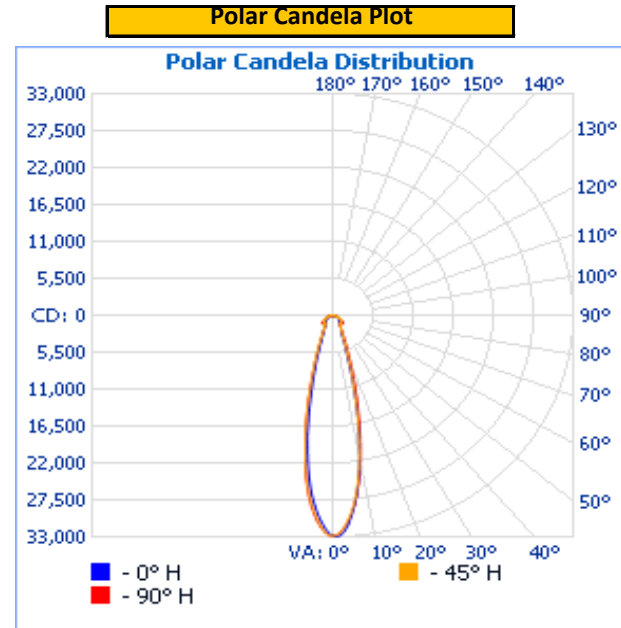
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor (I)
Up	120.1	978.8	117.28	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
12703.5	108.3

INTENSITY SUMMARY - CANDELA

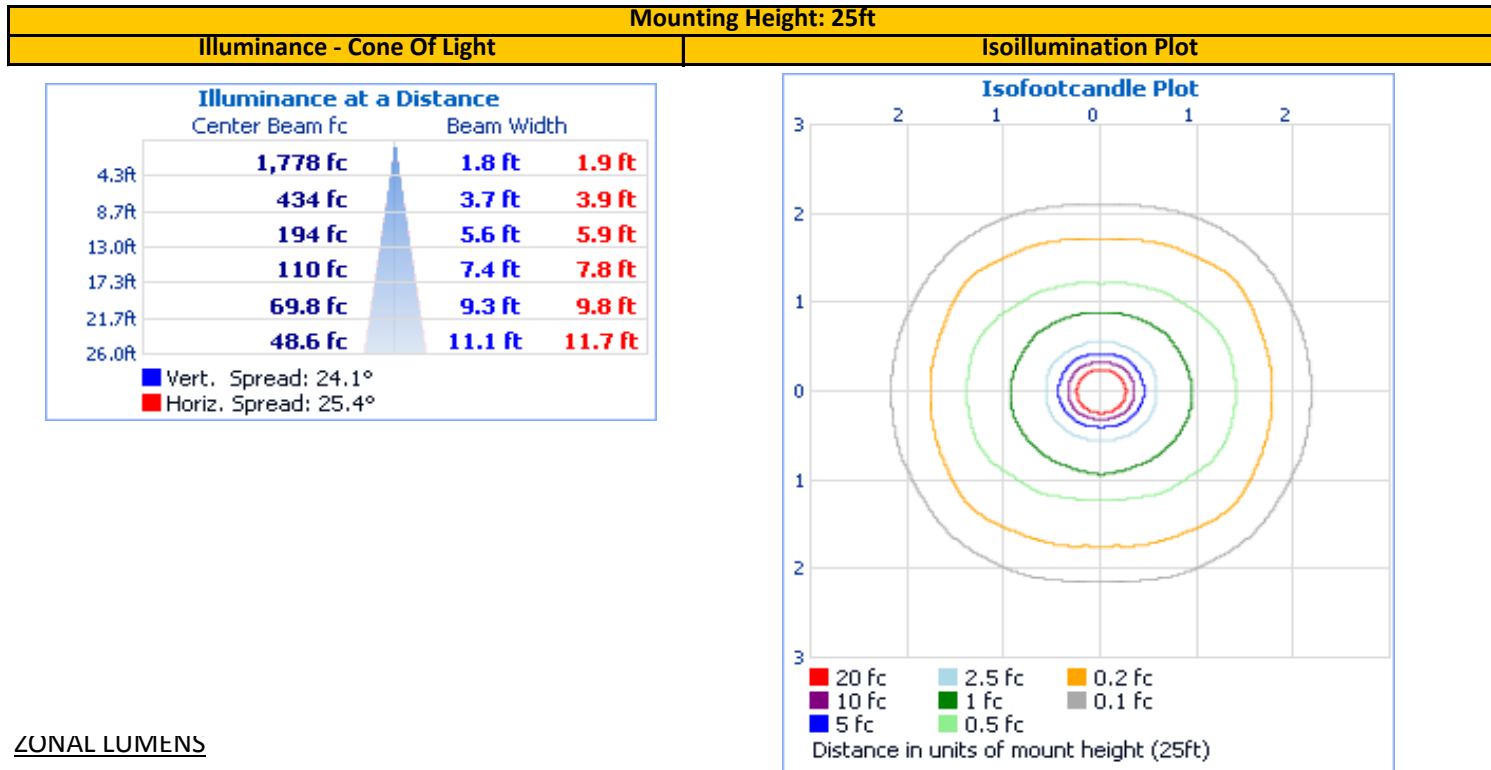
Angle	0	22.5	45	67.5	90
0	32867	32867	32867	32867	32867
5	29866	29121	29410	29431	29636
10	21323	20411	21126	21434	21848
15	11250	10736	11397	12105	12744
20	5083	5094	5645	6090	6545
25	2782	3040	3120	3336	3630
30	2304	2224	2293	2362	2350
35	1937	1851	1829	1916	1820
40	1705	1538	1681	1730	1631
45	1470	1469	1542	1586	1665
50	1226	1367	1419	1630	1775
55	1151	1291	1424	1574	1523
60	1014	1118	1300	1179	1082
65	824	921	972	886	871
70	637	702	733	738	763
75	492	543	608	568	490
80	246	336	360	295	264
85	91	121	125	112	100
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	7,523.6	59.2%	0-10	2539.2	20.0%
0-40	8,702.6	68.5%	10-20	3329.6	26.2%
0-60	11,120.2	87.5%	20-30	1654.9	13.0%
60-90	1,583.3	12.5%	30-40	1179.0	9.3%
70-100	685.3	5.4%	40-50	1195.6	9.4%
90-120	0.0	0.0%	50-60	1222.0	9.6%
0-90	12,703.5	100.0%	60-70	898.0	7.1%
90-180	0.0	0.0%	70-80	545.3	4.3%
0-180	12,703.5	100.0%	80-90	140.0	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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