

ILLUMADYNE, INC

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

4CB-HE-48-M-3500-[OPTIONS]

PROJECT NUMBER

G104427113

REPORT NUMBER

104427113CRT-008

ISSUE DATE

8/26/2020

REVISED DATE

None

TEST DATES

8/26/2020

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

104427113CRT-008

MODEL NUMBER(s)

4CB-HE-48-M-3500-[OPTIONS]

REPORT RENDERED TO:

ILLUMADYNE, INC
3840 HOPKINS STREET
PENSACOLA, FL 32505

STATEMENT OF LIMITATION

NVLAP Lab Code 100402-0. 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-01101681-0.

TEST STANDARDS

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

In Charge of Testing:



Melanie Brittain
Senior Associate Engineer
Lighting Division

Reviewer:



Jeff Davis
Technical Lead
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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2008241426-001C	4CB-HE-48-M-3500- [OPTIONS]	High Bay	Production	8/24/2020

*options do not impact
performance

SAMPLE PHOTOS - TESTED CONFIGURATIONS



TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

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

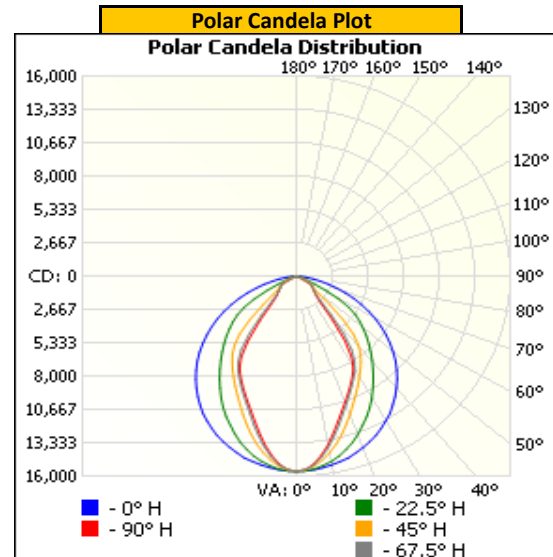
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.1	1262.6	151.2	0.998

Light Output (lm)	Lumen Efficacy (lm/W)
24639.5	162.9

INTENSITY SUMMARY - CANDELA

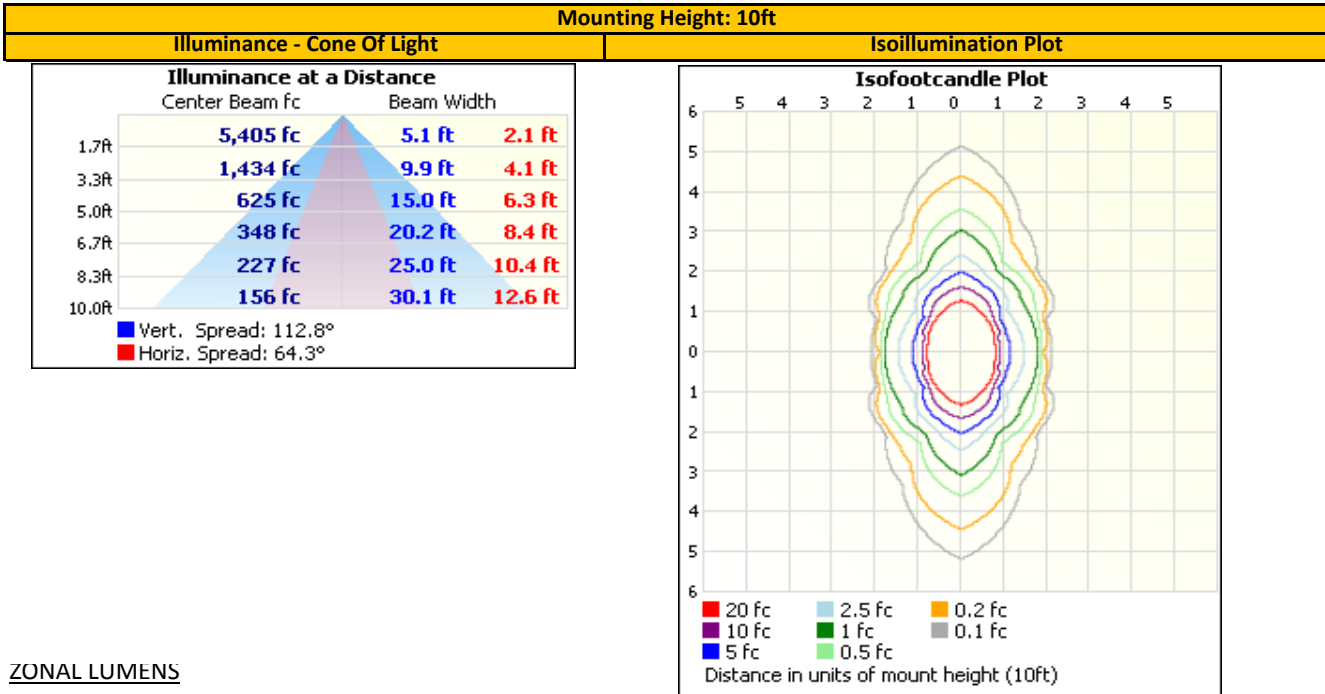
Angle	0	22.5	45	67.5	90
0	15620	15620	15620	15620	15620
5	15539	15496	15237	15132	15081
10	15325	15051	14324	13862	13677
15	15049	14357	13105	12305	12028
20	14586	13445	11731	10884	10675
25	14055	12421	10479	9762	9575
30	13370	11280	9402	8738	8500
35	12572	10030	8392	7230	6321
40	11645	8804	7213	4048	2954
45	10619	7662	4966	2096	2002
50	9459	6538	2260	1670	1670
55	8179	5377	1513	1416	1444
60	6833	3650	1182	1211	1007
65	5380	1468	955	93	123
70	3883	764	87	63	98
75	2460	481	46	60	64
80	1241	36	38	42	41
85	339	16	12	15	22
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	10,286.3	41.7%	90-100	0.0	0.0%
0-40	15,674.5	63.6%	10-20	3738.8	15.2%
0-60	22,672.0	92.0%	20-30	5117.2	20.8%
60-90	1,967.5	8.0%	30-40	5388.1	21.9%
70-100	551.5	2.2%	40-50	4080.8	16.6%
90-120	0.0	0.0%	50-60	2916.7	11.8%
0-90	24,639.5	100.0%	60-70	1416.0	5.7%
90-180	0.0	0.0%	70-80	477.3	1.9%
0-180	24,639.5	100.0%	80-90	74.2	0.3%
			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	LSI High Speed Mirror Goniometer	6440	---	8/21/2020	9/21/2020
2	Elgar AC Power Supply	CW1251	---	VBV	VBV
3	Yokogawa Power Analyzer	WT210	E464	5/11/2020	5/11/2021
4	Traceable Hygrothermometer	4800	L203	2/17/2020	2/17/2021
5	M-D Building Products Digital Level	Smart Tool	307-L112	5/14/2020	5/14/2021
6	NIST Luminous Intensity Standard Source	NBS10322	N1427	2/11/2019	2/11/2021
7	NIST Luminous Intensity Standard Source	NBS10332	N1435	2/11/2019	2/11/2021
8	NIST Luminous Intensity Standard Source	NBS10265	N1437	2/11/2019	2/11/2021
9	NIST Luminous Flux Standard Source	NBS10428	N1424	1/3/2019	1/3/2021
10	Sorenson DC Power Supply	XG 150-10	---	VBV	VBV
11	Omega Thermometer	DPI8-C24	M263	2/27/2020	2/27/2021
12	Multi Channel Spectroradiometer	OL 770	O230	7/21/2020	7/21/2021

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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