



FOR THE SCOPE OF
ACCREDITATION UNDER NVLAP LAB
CODE 100402-0.

REPORT

3933 US ROUTE 11, CORTLAND, NEW YORK 13045

Project No. G102182053

Date: August 17, 2015

REPORT NO. 102182053CRT-028

TEST OF ONE RECESSED DOWNLIGHT

MODEL NO. A6VECLEL1-N-1330K

LED MODEL NO. CREE CXB-1512

DRIVER MODEL NO. HATCH LC16-0350N-UNV-D

RENDERED TO:

LEXINGTON LIGHTING GROUP, LLC DBA VANTAGE LIGHTING
645 MYLES STANDISH BLVD
TAUNTON, MA 02780

TESTS: Electrical and Photometric tests as required to the IESNA test standard.

STATEMENT OF LIMITATION: 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 500608558.

STANDARDS USED:

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

DESCRIPTION OF SAMPLE: The client submitted one prototype sample of model number A6VECLEL1-N-1330K. The sample was received by Intertek on August 4, 2015 in undamaged condition and one sample was tested as received. The sample designation was CRT1508040952-001-005.

DATE OF TESTS: August 13, 2015

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SUMMARY:

MODEL NO. A6VECLE1-N-1330K
DESCRIPTION: RECESSED DOWNLIGHT

Criteria	Results
Light Output (Lumens)	1140
Total Power (W)	13.81
Lumen Efficacy (Lm/W)	82.6
Power Factor ()	0.990

EQUIPMENT LIST

Equipment Used	Model No.	Control No.	Last Cal.	Cal. Due
LSI High Speed Mirror Goniometer	6440	---	8/10/2015	9/10/2015
Elgar AC Power Supply	CW1251	---	VBV	VBV
Sorenson DC Power Supply	XG 150-10	---	VBV	VBV
Yokogawa Power Analyzer	WT210	E464	4/20/2015	4/20/2016
ExTech Hygro Thermometer	445703	T1357	12/10/2014	12/10/2015
Fisher Scientific Stopwatch	14-649-9	N1405	8/25/2014	8/25/2015
M-D Building Products Digital Level	Smart Tool	L112	3/25/2015	3/25/2016
NIST Luminous Intensity Standard Source	NBS10322	N1427	12/12/2014	12/12/2015
NIST Luminous Intensity Standard Source	NBS10215	N1432	12/12/2014	12/12/2015
NIST Luminous Intensity Standard Source	H754	N1433	12/12/2014	12/12/2015
NIST Luminous Flux Standard Source	NBS10428	N1424	12/17/2014	12/17/2015

TEST METHODS:

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79.

Photometric and Electrical measurements – Distribution Method

A LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

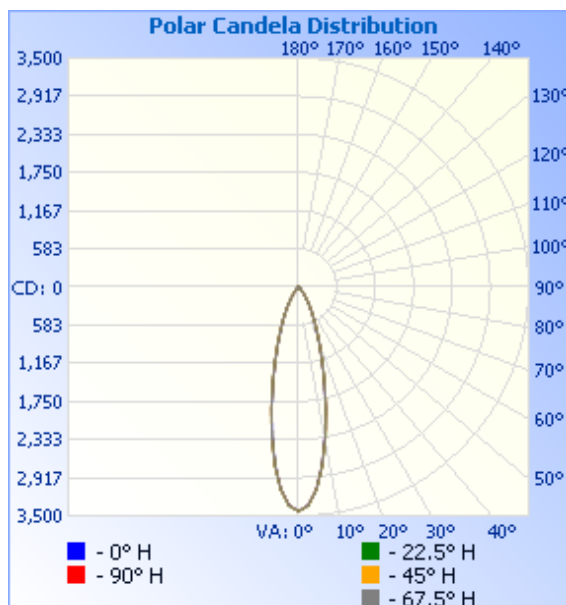
RESULTS:

Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Control No.	Base Orientation	Input Voltage (VAC)	Input Current (mA)	Input Power (W)	Input Power Factor ()	Light Output (Lumens)	Lumen Efficacy (lm/W)
CRT1508040952-001-005	Base Up	120.0	116.2	13.81	0.990	1140.0	82.6

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	3428	3428	3428	3428	3428
5	3108	3107	3111	3105	3099
10	2321	2335	2343	2340	2325
15	1511	1526	1527	1530	1516
20	925	934	939	937	930
25	557	566	568	569	565
30	333	332	333	333	331
35	178	180	180	181	181
40	92	94	94	94	94
45	50	50	50	50	50
50	28	28	29	28	28
55	17	17	18	17	17
60	11	11	11	11	11
65	7	7	7	7	7
70	4	4	4	4	4
75	1	1	2	2	1
80	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

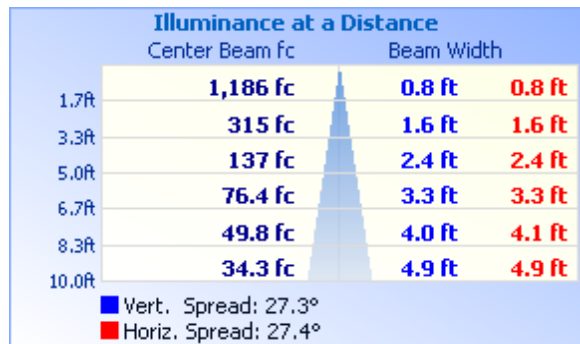


RESULTS:

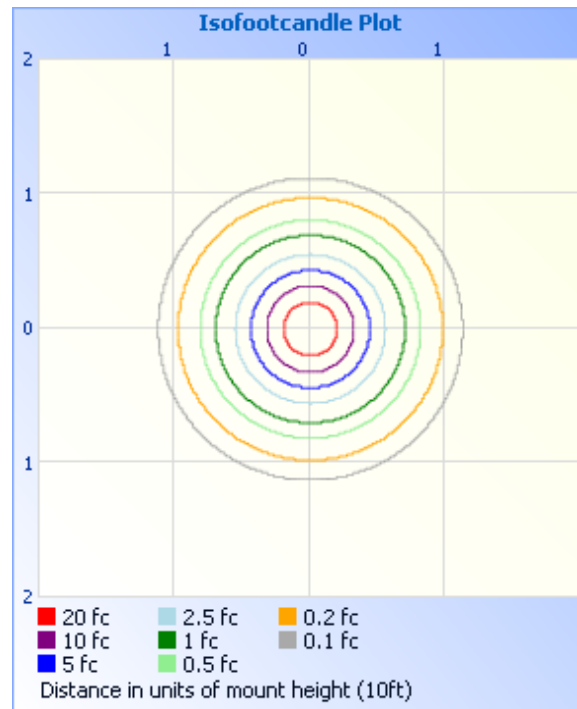
Illumination Plots

Mounting Height: 10

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	956.3	83.9
0-40	1074.2	94.2
0-60	1131.6	99.2
60-90	8.7	0.8
0-90	1140.3	100.0
90-180	0.0	0.0
0-180	1140.3	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	270.0	23.7
10-20	421.6	37.0
20-30	264.8	23.2
30-40	117.9	10.3
40-50	41.2	3.6
50-60	16.2	1.4
60-70	7.1	0.6
70-80	1.6	0.1
80-90	0.0	0.0

PRODUCT PICTURE:



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:



Gerald Gray
Associate Engineer
Lighting Division

Report Reviewed By:



Ryan Siddon
Engineer
Lighting Division

Attachments: IES File - CRT1508040952-001-005