

SCOUT LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SS-OG10-M-30-M-EF-0-N-N-12

PROJECT NUMBER

G105054548

REPORT NUMBER

105054548CRT-007

ISSUE DATE

5/19/2022

REVISED DATE

None

TEST DATES

5/11/2022

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105054548CRT-007

MODEL NUMBER(s)

SS-OG10-M-30-M-EF-0-N-N-12

REPORT RENDERED TO:

SCOUT LIGHTING
221 WEST 21ST, UNIT 1B
NEW YORK, NY 10011
USA

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-01263221-1.

TEST STANDARDS

ANSI/IES LM-79-19: Optical and Electrical Measurements of Solid State Lighting Products

IES LM-79-08: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:

Reviewer:



Gerald Gray
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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2204251036-001-6	SS-OG10-M-30-M-EF-0-N-N-12	Scout Grazer - Injection Molded Optic - Grazer Optic	Production	4/25/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	SS-OG10-M-30-M-EF-0-N-N-12	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	SS-OG10-M-30-M-EF-0-N-N-12
Product Description:	Scout Grazer - Injection Molded Optic - Grazer Optic
LED Model No.:	CREE 2835 18V
Driver Model No.:	Advance XI013C036V054DNM1
Light Source:	LED

Criteria	Results
Light Output (lumens)	579.5
Input Power (W) @ 120 (Vac)	6.61
Lumen Efficacy (lm/W)	87.7
Input Power Factor () @ 120 (Vac)	0.974

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	SS-OG10-M-30-M-EF-0-N-N-12	NA

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

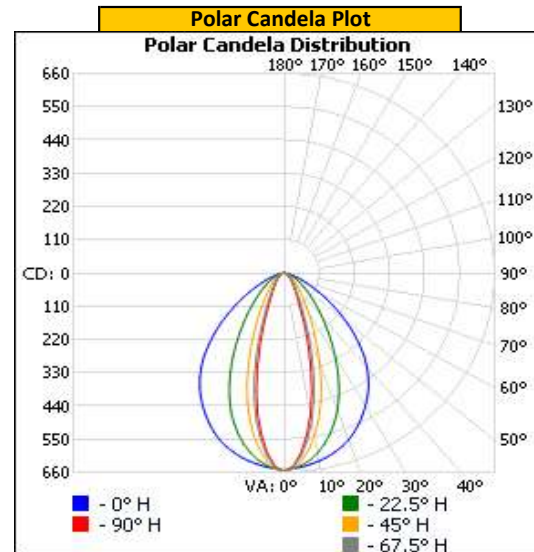
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.01	56.5	6.61	0.974

Light Output (lm)	Lumen Efficacy (lm/W)
579.5	87.7

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	654	654	654	654	654
5	644	639	625	609	599
10	632	605	546	498	476
15	614	553	444	359	324
20	588	487	329	227	191
25	552	406	227	136	111
30	509	321	154	87	73
35	461	243	107	61	52
40	403	180	77	45	39
45	333	132	56	34	30
50	259	96	40	26	22
55	187	69	30	20	17
60	125	49	22	15	13
65	76	34	15	10	9
70	43	23	10	6	6
75	22	14	5	3	3
80	9	7	2	1	1
85	1	1	0	0	0
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



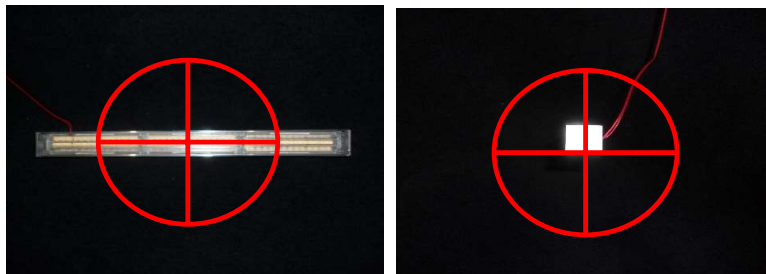
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ORIENTATION AND ALIGNMENT OF EUT

Luminous Opening		
Length (ft)	Width (ft)	Height (ft)
0.98	0.08	0.00
0°-180° H	90°-270° H	0°-180° V

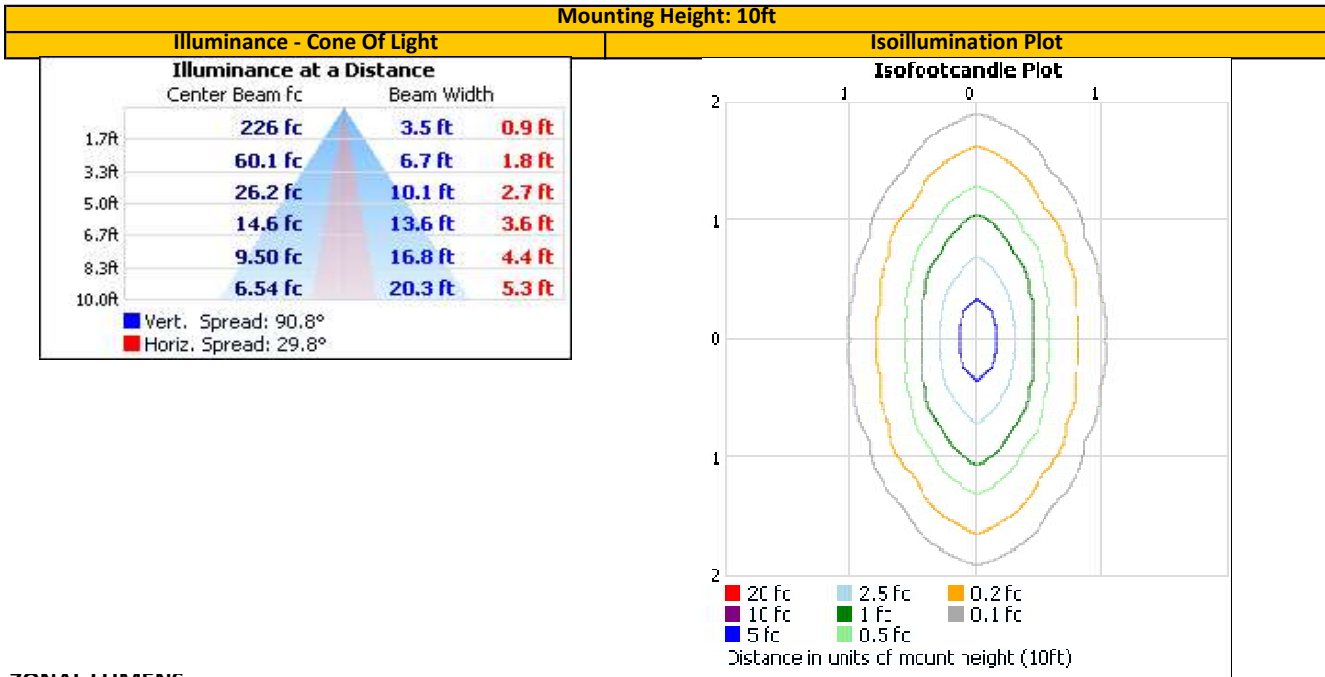
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	310.1	53.5%	0-10	57.0	9.8%
0-40	415.1	71.6%	10-20	126.0	21.7%
0-60	542.9	93.7%	20-30	127.1	21.9%
60-90	36.7	6.3%	30-40	105.0	18.1%
70-100	10.7	1.8%	40-50	78.0	13.5%
90-120	0.0	0.0%	50-60	49.8	8.6%
0-90	579.5	100.0%	60-70	26.0	4.5%
90-180	0.0	0.0%	70-80	9.7	1.7%
0-180	579.5	100.0%	80-90	1.0	0.2%
			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	LSI High Speed Mirror Goniophotometer	6440	---	4/4/2022	7/4/2022
2	Elgar AC Power Supply	CW1251	---	VBV	VBV
3	Yokogawa Power Analyzer	WT1600	307-E537	3/10/2022	3/10/2023
4	Traceable Hygrothermometer	4800	L204	2/21/2022	2/21/2023
5	Sorenson DC Power Supply	XG 150-10	---	VBV	VBV
6	Omega Thermometer	DPi8-C24	M263	3/1/2022	3/1/2023
7	Bosch Distance Laser	Pro GLM 20	L210	3/21/2022	3/15/2023
8	M-D Building Products Digital Level	Smart Tool	L112	5/26/2021	5/26/2022
9	Tape Measure	Crescent	---	9/21/2021	9/21/2024

REVISION HISTORY

#	Revision Date	Updated By	Reviewed By	Description of Change
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