

SCOUT LIGHTING

TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

LS-FF-M-30-M-0-12

PROJECT NUMBER

G105054548

REPORT NUMBER

105054548CRT-006

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-006

MODEL NUMBER(s)

LS-FF-M-30-M-0-12

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
Associate Engineer
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Melanie Brittain
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SAMPLE INFORMATION

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ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	CRT2204251036-001-1	LS-FF-M-30-M-0-12	LightSlice - Frosted Lens	Production	4/25/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	LS-FF-M-30-M-0-12	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	LS-FF-M-30-M-0-12
Product Description:	LightSlice - Frosted Lens
LED Model No.:	CREE 2835 18V
Driver Model No.:	Advance XI013C036V054DNM1
Light Source:	LED

Criteria	Results
Light Output (lumens)	403.5
Input Power (W) @ 120 (Vac)	6.57
Lumen Efficacy (lm/W)	61.4
Input Power Factor (I) @ 120 (Vac)	0.973

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	LS-FF-M-30-M-0-12	NA

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

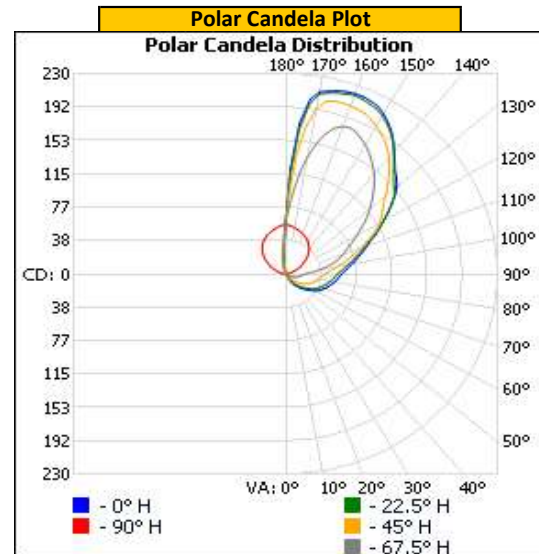
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up	120.02	56.2	6.57	0.973

Light Output (lm)	Lumen Efficacy (lm/W)
403.5	61.4

INTENSITY SUMMARY - CANDELA

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	0	0	0	0	0
10	0	0	0	0	0
15	0	0	0	0	0
20	0	0	0	0	0
25	0	0	0	0	0
30	5	5	4	4	4
35	13	13	13	12	12
40	18	18	17	17	17
45	23	22	22	22	21
50	28	27	27	26	26
55	33	33	32	32	31
60	38	38	38	37	36
65	43	43	42	42	41
70	47	46	46	45	45
75	50	50	49	49	48
80	54	53	53	52	52
85	57	57	56	56	55
90	61	61	60	60	59
95	67	66	66	65	65
100	75	74	74	73	73
105	84	83	83	82	82
110	94	94	93	93	93
115	108	108	108	108	108
120	123	123	123	123	123
125	141	141	141	141	141
130	158	157	157	156	156
135	168	168	168	167	167
140	184	183	183	183	183
145	200	200	200	200	199
150	212	212	212	212	211
155	219	218	218	218	218
160	220	220	220	220	219
165	218	217	217	217	217
170	212	212	212	212	211
175	174	173	172	171	170
180	60	60	60	60	60

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)
0.19	1.00	0.00
0°-180° H	90°-270° H	0°-180° V

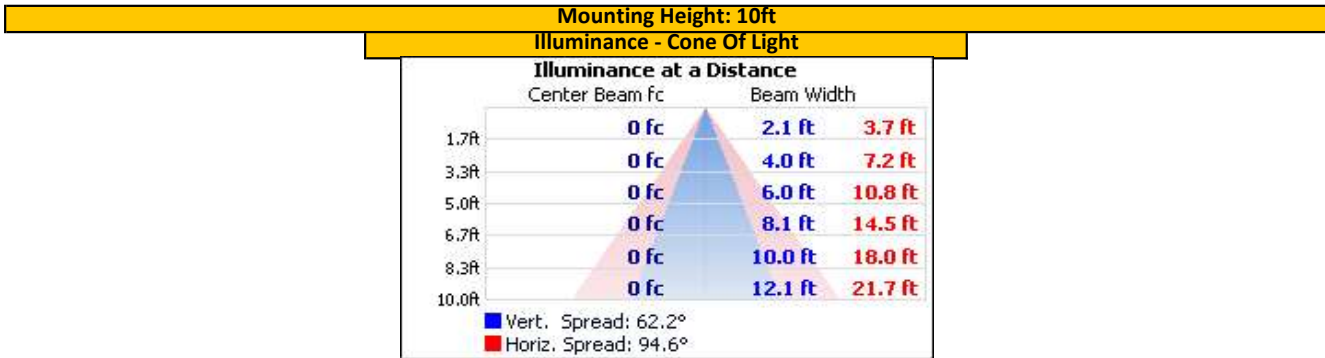
Test Distance (ft)
29.6

PHOTOMETRIC CENTER OF EUT



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	0.1	0.0%	90-100	24.7	6.1%
0-40	1.6	0.4%	100-110	34.3	8.5%
0-60	13.5	3.3%	110-120	44.1	10.9%
60-90	46.2	11.4%	120-130	52.6	13.0%
70-100	59.1	14.7%	130-140	56.0	13.9%
90-120	103.1	25.6%	140-150	53.9	13.4%
0-90	59.7	14.8%	150-160	43.5	10.8%
90-180	343.8	85.2%	160-170	26.8	6.7%
0-180	403.5	100.0%	170-180	7.9	2.0%

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
---	None	---	---	---
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