



Photometric Test Report

Relevant Standards

- IES LM-79-2024
- ANSI C82.77-10:2020

Prepared For

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The results contained in this report pertain only to the tested sample.

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1.0 Test Summary

Linear Replacement Lamps - 3' T5 Lamps- 2-lamp External Driver (UL Type C) Lamps			
Requirement Category	Test Method	Requirements	Test value
Luminaire Output (lm) (Goniophotometer - Section 4.1)	IES LM-79-2024	-	2476
Minimum Efficacy (lm/W) (Goniophotometer - Section 4.1)	IES LM-79-2024	-	112.5
Power (Input Wattage) (W) (Goniophotometer - Section 4.1)	IES LM-79-2024	Wrost Case	22.0
Beam Angle (Goniophotometer - Section 4.1)	IES LM-79-2024	-	201.5
Input Voltage (V)			
(Goniophotometer - Section 4.1)	IES LM-79-2024	Worst Case	120
(Goniophotometer - Section 4.1)		Non-Worst Case	277
Input Current (A)			
(Goniophotometer - Section 4.1)	IES LM-79-2024	Worst Case	0.184
(Goniophotometer - Section 4.1)		Non-Worst Case	0.081
Power (Input Wattage - W)			
(Goniophotometer - Section 4.1)	IES LM-79-2024	Worst Case	22.0
(Goniophotometer - Section 4.1)		Non-Worst Case	21.8

2.0 Test List

Test Item	Test	Test Date	Model Number	Sample No.
1	Goniophotometer Test	2026/5/7	L36T5/835/18G-XT	DLF2604102-B1

Remark(If any)

1. This report shall not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the US government.

2. The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

3.0 DUT Description

Model Number: L36T5/835/18G-XT

Electrical Rating: 120-277V,50/60Hz

Received Date: 2026/4/30

External Driver Model: VPL50-2C-025/036/050

Photos of DUT Characteristics



4.0 Test Results

4.1 Goniophotometer Test

Model No.	L36T5/835/18G-XT	Sample ID.	DLF2604102-B1
Operate time (Min.)	90	Stabilization time (Min.)	45
Temperature (°C)	25.3	Humidity (%RH)	54.0

Test Method

The samples were tested according to the IES LM-79-2024.

Photometric parameters were measured using a type C goniophotometer and software.

The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$ and 10% - 65% RH, measured at a point not more than 1 m from the sample and at the same height as the sample.

The voltage of an AC power supply (RMS voltage) or DC power supply (instantaneous voltage) applied to the device under test shall be regulated to within ± 0.2 percent under load.

Airflow for the instantaneous tangential velocity of any point on the DUT shall be less than an upper tolerance limit of 0.20 m/s.

The samples were operated at rated voltage and was stabilized before measurement. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 0.5° vertical intervals and 10° horizontal intervals.

Test Conditions

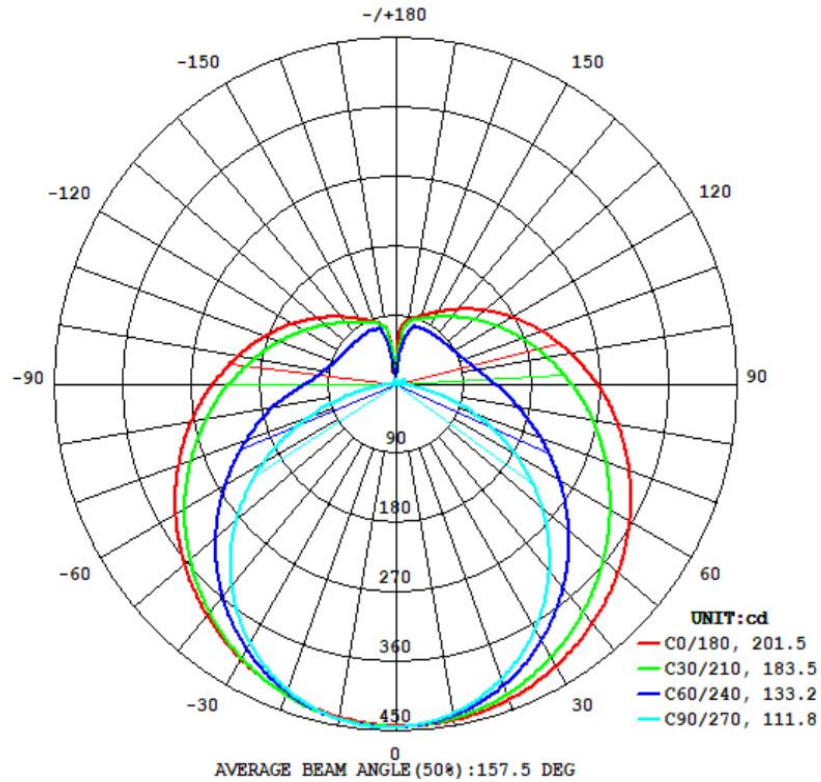
Condition	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD
WORST CASE	119.96	60	0.184	22.0	0.997	4.82%
NON-WORST CASE	277.03	60	0.081	21.8	0.972	7.71%

Test Result

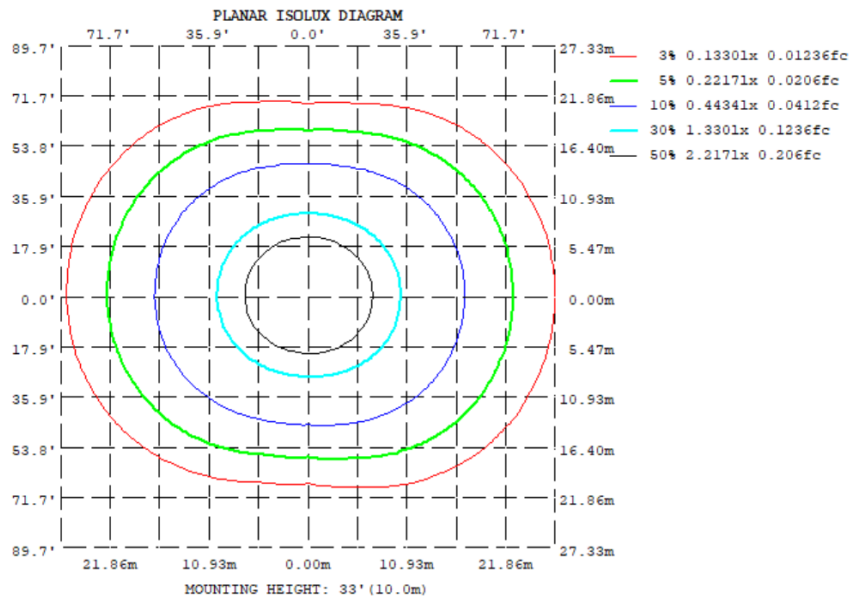
Flux (lm)	Luminous Efficacy (lm/W)	Beam Angle
2476	112.5	201.5

4.2 Goniophotometer Test

Light Distribution Curve



Isolux Plot



4.2 Goniophotometer Test

Zonal Lumen Summary

γ	C0	C45	C90	C135	C180	C225	C270	C315
10	442.3	437.6	433.2	435.4	438.6	440.6	440.9	443.6
20	434.8	421.3	406.8	415.3	427.5	426.4	421.6	431.1
30	421.9	396.3	367.0	386.2	411.0	403.1	387.0	408.5
40	403.8	364.9	315.1	350.4	389.5	371.9	337.9	377.4
50	381.7	329.5	253.1	310.5	364.1	335.3	275.8	340.5
60	355.9	292.3	182.6	269.1	335.8	296.0	202.7	300.4
70	327.4	255.5	107.4	229.1	305.4	256.5	121.7	260.1
80	297.2	221.3	36.69	192.8	274.2	218.3	43.85	222.3
90	265.9	190.8	1.487	160.1	243.3	182.9	1.100	189.0
100	235.0	164.7	2.401	134.1	213.5	155.0	1.353	161.5
110	205.2	143.0	11.38	115.7	185.3	133.0	5.193	138.9
120	177.0	125.2	13.44	102.0	159.4	115.5	1.063	121.5
130	151.1	111.1	7.536	92.26	135.3	102.5	0.8308	108.4
140	128.3	100.3	4.757	85.85	115.2	92.95	2.382	98.62
150	109.3	92.20	4.156	81.99	99.12	86.96	0.6168	90.74
160	94.68	86.37	3.043	75.63	87.69	83.66	8.892	83.31
170	84.71	64.25	0.9442	17.65	72.85	48.10	3.770	60.20
180	0	0.7914	8.430	7.536	0.5334	4.221	7.852	7.723
DEG	LUMINOUS INTENSITY:cd							

	Zonal (lm)		Total (lm)	Percent
0-10	42.19	0 - 10	42.19	1.70%
10-20	122.26	0 - 20	164.45	6.64%
20-30	190.03	0 - 30	354.48	14.32%
30-40	239.26	0 - 40	593.74	23.98%
40-50	266.36	0 - 50	860.10	34.74%
50-60	270.76	0 - 60	1130.86	45.68%
60-70	254.96	0 - 70	1385.82	55.97%
70-80	224.79	0 - 80	1610.61	65.05%
80-90	189.38	0 - 90	1799.99	72.70%
90-100	159.01	0 - 100	1959.00	79.12%
100-110	134.62	0 - 110	2093.62	84.56%
110-120	112.18	0 - 120	2205.80	89.09%
120-130	90.81	0 - 130	2296.61	92.76%
130-140	71.10	0 - 140	2367.71	95.63%
140-150	52.95	0 - 150	2420.66	97.77%
150-160	34.85	0 - 160	2455.51	99.18%
160-170	17.75	0 - 170	2473.26	99.89%
170-180	2.61	0 - 180	2475.87	100.00%

5.0 Equipment Information

Test Equipment			
Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
DLF107	Integrating Sphere System	2025/12/10	2026/12/9
DLF108	Auxiliary Lamp	2025/12/10	2026/12/9
DLF122	Measurement Standard Lamp Standard Lamp Type: Tungsten, Omni- directional	2025/12/10	2026/12/9
DLF116	AC Power Source	2025/12/8	2026/12/7
DLF516	Power Meter	2025/12/8	2026/12/7
DLF112	Temperature Recorder	2025/12/15	2026/12/14
DLF114	Temperature & Humidity Datalogger	2025/12/11	2026/12/10
DLF521	Measurement Standard Lamp Standard Lamp Type: Tungsten, Omni- directional	2025/12/10	2026/12/9
DLF101	Goniophotometer	2025/12/10	2026/12/9
DLF511	AC Power Source	2025/12/8	2026/12/7
DLF512	AC Power Source	2025/12/8	2026/12/7
DLF513	AC Power Source	2025/12/8	2026/12/7
DLF507	DC Power Source	2025/12/8	2026/12/7
DLF111	Temperature & Humidity Datalogger	2025/12/11	2026/12/10
DLF119	Power Meter	2025/12/8	2026/12/7
DLF530	Hot-wire anemometer	2026/1/26	2027/1/25
DLF129	Clock	2025/9/4	2026/9/3

***** End of Test Report*****