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Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Jesco Lighting Group LLC

Vic Nasrudin
15 Harbor Park Dr
Port Washington, NY 11050

Catalog Number
DL-FLEX-UP-ULTRA-NIC-30

Order Number
10761525
Test Number
1046657

Test Date

2015-04-29

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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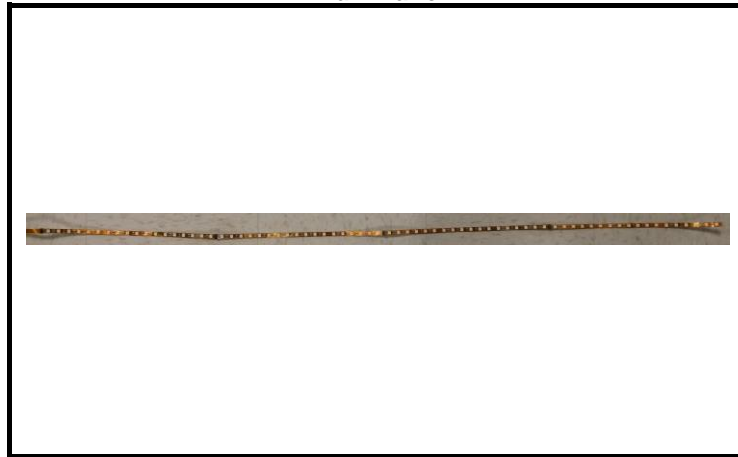
Laboratory results may not be representative of field performance
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the 4π geometry method.
Absorption correction was employed for Sphere measurement



Luminaire Description: LED strip
Lamp: 72 white LEDs
Mounting: Surface
Ballast/Driver: One DL-PS-100-24-2W power supply

Luminaire



Luminaire Characteristics

Luminous Length: 47.25 in.
Luminous Width: 0.2500 in.

Summary of Results

Integrating Sphere

Luminous Flux: 1117 Lumens
Efficacy: 74.8 lm/w
CCT: 3098 K
CRI (Ra): 82.5

Distribution

Total Luminaire Output: 1087 Lumens
Luminaire Efficacy: 71.7 lm/w
Maximum Candela: 370 Candela

Electrical Data at 120 VAC

Test Temperature: 24.8 °C
Voltage: 120.0 VAC
Current: 0.2770 A
Power: 14.94 W
Power Factor: 0.449
Frequency: 60 Hz
Current THD: 192 %



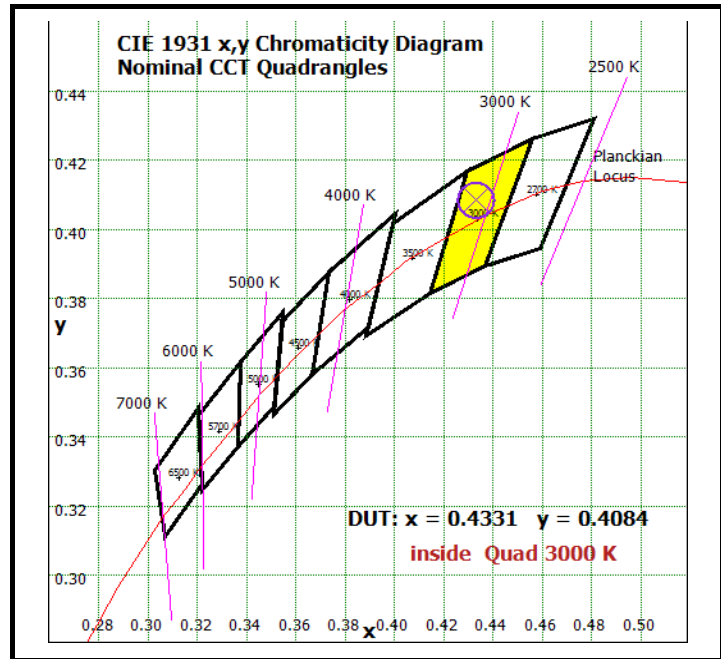
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.2770 A	14.94 W	0.449	60 Hz	192 %

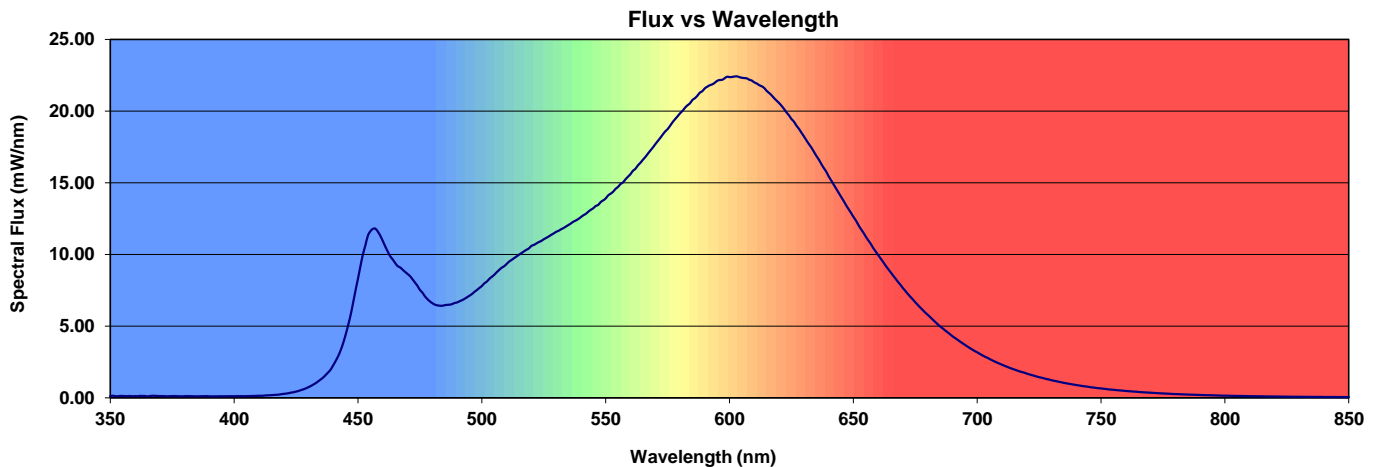
Summary of Results

Total Output:	1117 Lumens
Efficacy:	74.8 lm/w
CCT:	3098 K
CRI (Ra):	82.5
CRI (R9):	6.2
Chromaticity (x):	0.4331
Chromaticity (y):	0.4084
Chromaticity (u):	0.2463
Chromaticity (v):	0.3483
Chromaticity (u'):	0.2463
Chromaticity (v'):	0.5225
Duv:	0.0018



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
82.5	81.5	93.2	93.8	78.5	81.5	92.1	81.4	58.0	6.2	84.2	77.7	70.4	84.6	97.1





Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2657 A	15.17 W	0.476	60 Hz	179 %

Summary of Results

Spacing Criteria

0-180: 1.25
90-270: 1.25

Total Lumen Output:

1087 Lumens

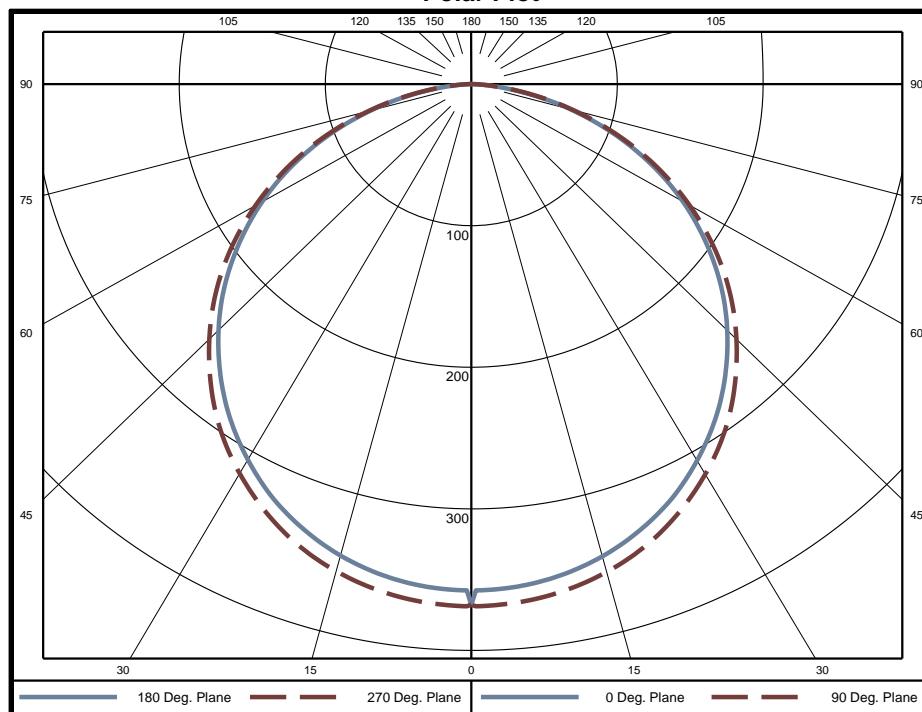
Luminaire Efficacy:

71.7 lm/w

Maximum Candela:

370 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	8.78	0.8%	60-65	75.93	7.0%	120-125	0	0.0%
5-10	26.06	2.4%	65-70	62.63	5.8%	125-130	0	0.0%
10-15	42.56	3.9%	70-75	47.06	4.3%	130-135	0	0.0%
15-20	57.78	5.3%	75-80	30.50	2.8%	135-140	0	0.0%
20-25	71.18	6.5%	80-85	14.72	1.4%	140-145	0	0.0%
25-30	82.34	7.6%	85-90	3.57	0.3%	145-150	0	0.0%
30-35	90.87	8.4%	90-95	0.06	0.0%	150-155	0	0.0%
35-40	96.43	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	98.76	9.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	97.91	9.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	93.78	8.6%	110-115	0	0.0%	170-175	0	0.0%
55-60	86.39	7.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	476	43.8%
0-60	853	78.5%
0-90	1087	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8
5	356.3	368.6	367.6	367.3	367.4	367.3	367.6	368.6	356.3	368.6	367.6	367.3	367.4	367.3	367.6	368.6
10	352.2	364.3	363.2	363.3	363.3	363.3	363.2	364.3	352.2	364.3	363.2	363.3	363.3	363.3	363.2	364.3
15	345.2	357.5	356.4	356.6	356.5	356.6	356.4	357.5	345.2	357.5	356.4	356.6	356.5	356.6	356.4	357.5
20	335.4	348.0	346.5	347.1	346.9	347.1	346.5	348.0	335.4	348.0	346.5	347.1	346.9	347.1	346.5	348.0
25	323.0	335.7	333.6	334.3	333.8	334.3	333.6	335.7	323.0	335.7	333.6	334.3	333.8	334.3	333.6	335.7
30	307.2	320.5	318.3	318.9	318.1	318.9	318.3	320.5	307.2	320.5	318.3	318.9	318.1	318.9	318.3	320.5
35	289.3	302.1	300.3	300.7	300.0	300.7	300.3	302.1	289.3	302.1	300.3	300.7	300.0	300.7	300.3	302.1
40	268.9	280.9	279.6	279.4	278.5	279.4	279.6	280.9	268.9	280.9	279.6	279.4	278.5	279.4	279.6	280.9
45	246.4	257.4	256.1	255.9	254.9	255.9	256.1	257.4	246.4	257.4	256.1	255.9	254.9	255.9	256.1	257.4
50	221.9	231.6	230.3	230.4	229.4	230.4	230.3	231.6	221.9	231.6	230.3	230.4	229.4	230.4	230.3	231.6
55	195.0	204.0	202.3	202.4	201.5	202.4	202.3	204.0	195.0	204.0	202.3	202.4	201.5	202.4	202.3	204.0
60	166.5	174.0	172.5	172.5	171.4	172.5	172.5	174.0	166.5	174.0	172.5	172.5	171.4	172.5	172.5	174.0
65	136.0	141.9	140.6	140.8	139.8	140.8	140.6	141.9	136.0	141.9	140.6	140.8	139.8	140.8	140.6	141.9
70	103.9	108.4	107.3	107.3	106.5	107.3	107.3	108.4	103.9	108.4	107.3	107.3	106.5	107.3	107.3	108.4
75	71.4	74.1	73.5	73.6	72.9	73.6	73.5	74.1	71.4	74.1	73.5	73.6	72.9	73.6	73.5	74.1
80	39.8	41.6	41.3	41.4	40.8	41.4	41.3	41.6	39.8	41.6	41.3	41.4	40.8	41.4	41.3	41.6
85	13.8	14.6	14.9	15.0	14.7	15.0	14.9	14.6	13.8	14.6	14.9	15.0	14.7	15.0	14.9	14.6
90	0.0	1.1	1.2	1.2	1.1	1.2	1.2	1.1	0.0	1.1	1.2	1.2	1.1	1.2	1.2	1.1
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	48260	48260	48260
45	45720	47530	47290
55	44610	46290	46090
65	42240	43670	43410
75	36220	37250	36970
85	20720	22460	22130



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	1294	1294	1294	1294	1264	1264	1264	1264	1208	1208	1208	1157	1157	1157	1109	1109	1109	1087
1	1182	1129	1082	1040	1152	1104	1062	1023	1058	1023	991	1016	987	960	976	953	932	909
2	1073	982	907	844	1044	961	892	833	922	864	814	887	838	795	854	813	777	754
3	976	860	770	699	949	843	759	692	810	739	680	780	719	668	752	700	656	632
4	893	760	664	590	867	746	655	586	718	640	577	693	625	569	669	610	561	538
5	820	678	579	506	797	666	573	503	643	561	498	621	549	492	601	537	487	463
6	756	610	511	441	735	599	506	439	580	496	435	561	487	431	544	478	427	404
7	701	552	456	388	682	543	452	387	526	444	384	510	436	381	496	429	378	356
8	652	503	410	346	635	496	406	344	481	400	342	467	394	340	455	388	338	317
9	609	461	371	310	593	455	369	309	442	363	308	430	358	306	419	353	304	284
10	571	425	339	281	556	420	336	280	409	332	279	399	328	278	389	323	276	257

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	23.0	5.13
6.00	10.2	7.69
8.00	5.75	10.3
10.0	3.68	12.8
12.0	2.55	15.4
14.0	1.88	18.0
16.0	1.44	20.5

Cone of Light Plot

