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Allentown, PA 18106
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Indoor Distribution Test Report

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

Prepared For
Jesco Lighting Group LLC
15 Harbor Park Dr
Port Washington, NY 11050
United States

Catalog Number
DL-FLEX2-UP-ULTRA-3090
Order Number
12519015
Test Number
12519015.03

Test Date

2018-09-21

Prepared By

Cordaryl Cousar, Technician

Approved By

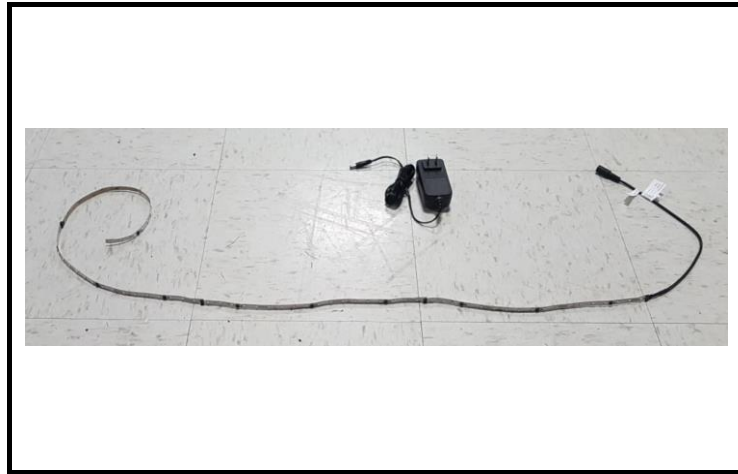
Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: LED strip
Lamp: 72 white LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One Jesco DL-PS-WP24/24 AC Adapter

Luminaire



Luminaire Characteristics

Luminous Length: 47.00 in.
Luminous Width: 0.2500 in.

Summary of Results

Total Luminaire Output:	1461 Lumens
Luminaire Efficacy:	79.8 lm/w
Maximum Candela:	503 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.3125 A
Power:	18.31 W
Power Factor:	0.488
Frequency:	60 Hz
Current THD:	171 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

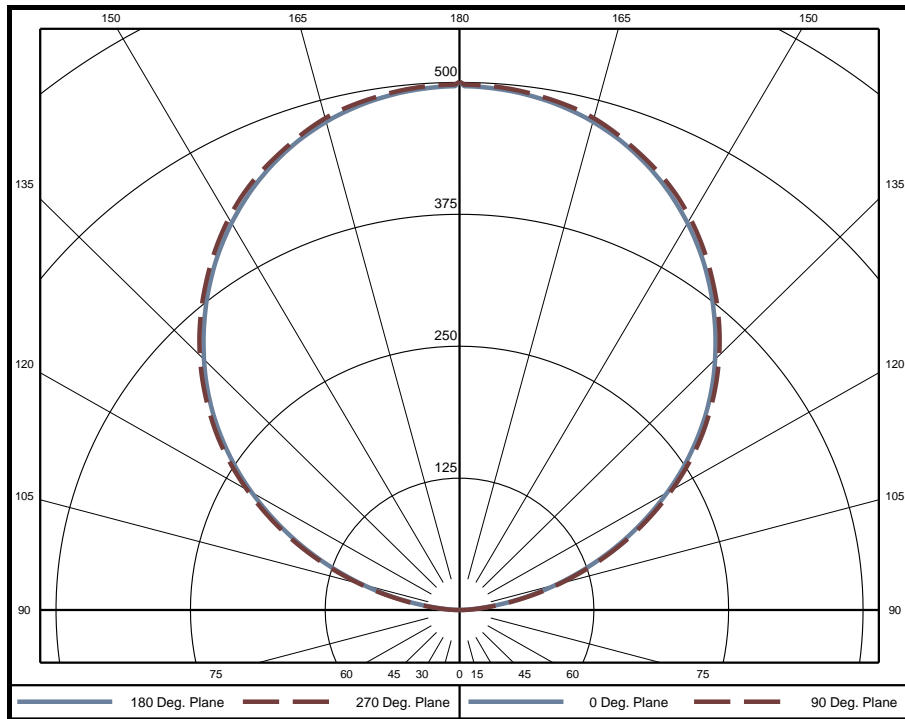
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.3125 A	18.31 W	0.488	60 Hz	171 %

Summary of Results

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Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	115.2	7.9%
5-10	0	0.0%	65-70	0	0.0%	125-130	125.5	8.6%
10-15	0	0.0%	70-75	0	0.0%	130-135	131.2	9.0%
15-20	0	0.0%	75-80	0	0.0%	135-140	132.6	9.1%
20-25	0	0.0%	80-85	0	0.0%	140-145	129.7	8.9%
25-30	0	0.0%	85-90	0	0.0%	145-150	122.7	8.4%
30-35	0	0.0%	90-95	6.0	0.4%	150-155	111.6	7.6%
35-40	0	0.0%	95-100	20.3	1.4%	155-160	96.7	6.6%
40-45	0	0.0%	100-105	40.3	2.8%	160-165	78.6	5.4%
45-50	0	0.0%	105-110	61.8	4.2%	165-170	58.0	4.0%
50-55	0	0.0%	110-115	82.4	5.6%	170-175	35.5	2.4%
55-60	0	0.0%	115-120	100.5	6.9%	175-180	12.0	0.8%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	1461	100.0%



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	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
5	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
10	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
15	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
20	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
25	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
30	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
35	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
40	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
45	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
50	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
55	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
60	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
65	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
70	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
75	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
80	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
85	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
90	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
95	18.4	21.4	22.5	22.2	21.6	22.2	22.5	21.4	18.4	21.4	22.5	22.2	21.6	22.2	22.5	21.4
100	53.0	55.0	55.8	55.6	55.3	55.6	55.8	55.0	53.0	55.0	55.8	55.6	55.3	55.6	55.8	55.0
105	93.4	96.8	96.5	96.9	96.7	96.9	96.5	96.8	93.4	96.8	96.5	96.9	96.7	96.9	96.5	96.8
110	136.4	141.4	140.9	141.4	140.5	141.4	140.9	141.4	136.4	141.4	140.9	141.4	140.5	141.4	140.9	141.4
115	180.0	186.1	185.5	186.0	185.1	186.0	185.5	186.1	180.0	186.1	185.5	186.0	185.1	186.0	185.5	186.1
120	222.9	230.0	228.8	229.3	228.2	229.3	228.8	230.0	222.9	230.0	228.8	229.3	228.2	229.3	228.8	230.0
125	263.6	271.8	270.0	270.1	269.4	270.1	270.0	271.8	263.6	271.8	270.0	270.1	269.4	270.1	270.0	271.8
130	301.5	309.6	308.2	307.4	306.6	307.4	308.2	309.6	301.5	309.6	308.2	307.4	306.6	307.4	308.2	309.6
135	335.7	344.6	342.9	342.2	341.3	342.2	342.9	344.6	335.7	344.6	342.9	342.2	341.3	342.2	342.9	344.6
140	367.7	376.4	374.9	374.2	373.1	374.2	374.9	376.4	367.7	376.4	374.9	374.2	373.1	374.2	374.9	376.4
145	397.3	405.6	403.6	404.2	402.3	404.2	403.6	405.6	397.3	405.6	403.6	404.2	402.3	404.2	403.6	405.6
150	423.5	431.9	429.6	431.0	428.8	431.0	429.6	431.9	423.5	431.9	429.6	431.0	428.8	431.0	429.6	431.9
155	446.2	454.5	452.1	453.1	450.6	453.1	452.1	454.5	446.2	454.5	452.1	453.1	450.6	453.1	452.1	454.5
160	464.8	472.4	470.8	470.9	467.7	470.9	470.8	472.4	464.8	472.4	470.8	470.9	467.7	470.9	470.8	472.4
165	479.0	485.6	484.4	485.2	482.5	485.2	484.4	485.6	479.0	485.6	484.4	485.2	482.5	485.2	484.4	485.6
170	488.8	495.4	494.2	494.3	491.2	494.3	494.2	495.4	488.8	495.4	494.2	494.3	491.2	494.3	494.2	495.4
175	494.5	501.4	499.5	499.2	496.4	499.2	499.5	501.4	494.5	501.4	499.5	499.2	496.4	499.2	499.5	501.4
180	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6	500.6

Vertical Angle (Degrees)



Coefficients of Utilization - 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 percent of total lumen output delivered to the task surface **																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

Beam and Field Information	
CIE Type:	Indirect
Center Beam Intensity:	496.5 Candela
Central Cone Intensity:	500 Candela
Beam Flux:	1096.4 Lumens
Beam Angle (0-180):	113.9 Degrees
Beam Angle (90-270):	115.2 Degrees
Field Angle (0-180):	160.9 Degrees
Field Angle (90-270):	161.5 Degrees