

# LIGHT LABORATORY, INC.

8165 E Kaiser Blvd. Anaheim, CA 92808

SHT 1 OF 1

Test #: L1010-0301

Date: 10/05/2010

## Luminaire Photometric Performance LM-79-2008

Manufacturer:	TEMPO INDUSTRIES
Model Number:	6312-120-6-00-35 (2 MODULE FIXTURE)

Total Lumens:	908.22 <sup>1</sup>
Input Power (W):	14.574 <sup>2</sup>
Input Current (Amp):	0.12 <sup>3</sup>
Input Power Factor:	0.98
Efficacy:	62.32
Color Rendering Index ( CRI ):	85.80
Correlated Color Temperature ( CCT ):	3659
Chromaticity Ordinate x:	0.390
Chromaticity Ordinate y:	0.368

### Notes:

1. 454.11 Lumens/module
2. 7.287 Watts/module
3. 0.06 Amps/module

\*Test data documentation on file and available upon request.

\*All results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

REV.	LOG NUMBER	REVISION DESCRIPTION	REVISION BY	CHECKED BY	APPROVED BY	DATE
A					JS	10/05/10

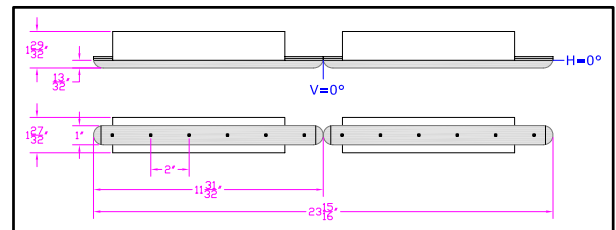
**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L10100301.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L1010-0301  
 [TESTLAB] LIGHT LABORATORY INC  
 [ISSUEDATE] 10/5/2010  
 [MANUFAC] TEMPO INDUSTRIES  
 [LUMCAT] 6312-120-6-00-35  
 [LUMINAIRE] 23-15/16"L. X 1-27/32"W. X 1-29/32"H. LED LUMINAIRE  
 [MORE] 2 LED MODULES, EACH MODULE HAS 6 3500K LEDS WITH 2" SPACING  
 [MORE] CLEAR ACRYLIC LENS  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] 3500K WARM WHITE LED  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [\_INPUT] 120VAC, 7.287W/MODULE  
 [\_TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	14.574
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.30
Spacing Criteria (90-270)	1.28
Spacing Criteria (Diagonal)	1.40
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	310.668	310.668	310.668	310.668	310.668
<b>5</b>	310.460	310.876	310.460	309.627	309.628
<b>10</b>	307.131	307.130	306.298	304.217	303.801
<b>15</b>	302.136	300.888	299.223	298.391	297.143
<b>20</b>	292.981	291.316	289.652	289.235	288.819
<b>25</b>	281.328	279.664	279.247	277.583	277.167
<b>30</b>	268.843	265.098	264.682	263.433	263.849
<b>35</b>	252.196	249.283	247.202	247.619	249.700
<b>40</b>	233.885	230.140	230.556	231.804	232.220
<b>45</b>	211.413	208.499	211.412	211.412	208.915
<b>50</b>	188.107	183.529	189.356	186.442	184.778
<b>55</b>	185.610	159.808	161.889	158.143	156.479
<b>60</b>	133.173	151.068	131.925	131.925	131.509
<b>65</b>	109.868	112.781	106.122	107.787	106.538
<b>70</b>	79.904	78.655	83.233	83.649	84.066
<b>75</b>	55.767	54.102	62.841	61.593	62.425
<b>80</b>	31.629	36.207	45.362	42.865	39.952
<b>85</b>	10.821	22.889	22.473	21.225	22.473
<b>90</b>	5.827	2.913	4.162	4.578	4.994
<b>95</b>	5.827	1.665	1.665	2.913	2.497
<b>100</b>	24.970	1.665	1.665	1.665	1.665
<b>105</b>	4.162	1.665	1.665	1.665	1.665
<b>110</b>	1.665	1.665	2.081	1.665	1.665
<b>115</b>	2.497	1.665	2.081	1.665	1.665
<b>120</b>	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	242.50	N.A.	26.70
0-40	398.25	N.A.	43.80
0-60	705.38	N.A.	77.70
0-90	900.28	N.A.	99.10
90-120	7.94	N.A.	0.90
90-130	7.94	N.A.	0.90
90-150	7.94	N.A.	0.90
90-180	7.94	N.A.	0.90
0-180	908.22	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	29.46
10-20	84.52
20-30	128.52
30-40	155.75
40-50	161.98
50-60	145.16
60-70	107.95
70-80	63.54
80-90	23.40
90-100	3.83
100-110	2.73
110-120	1.38
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

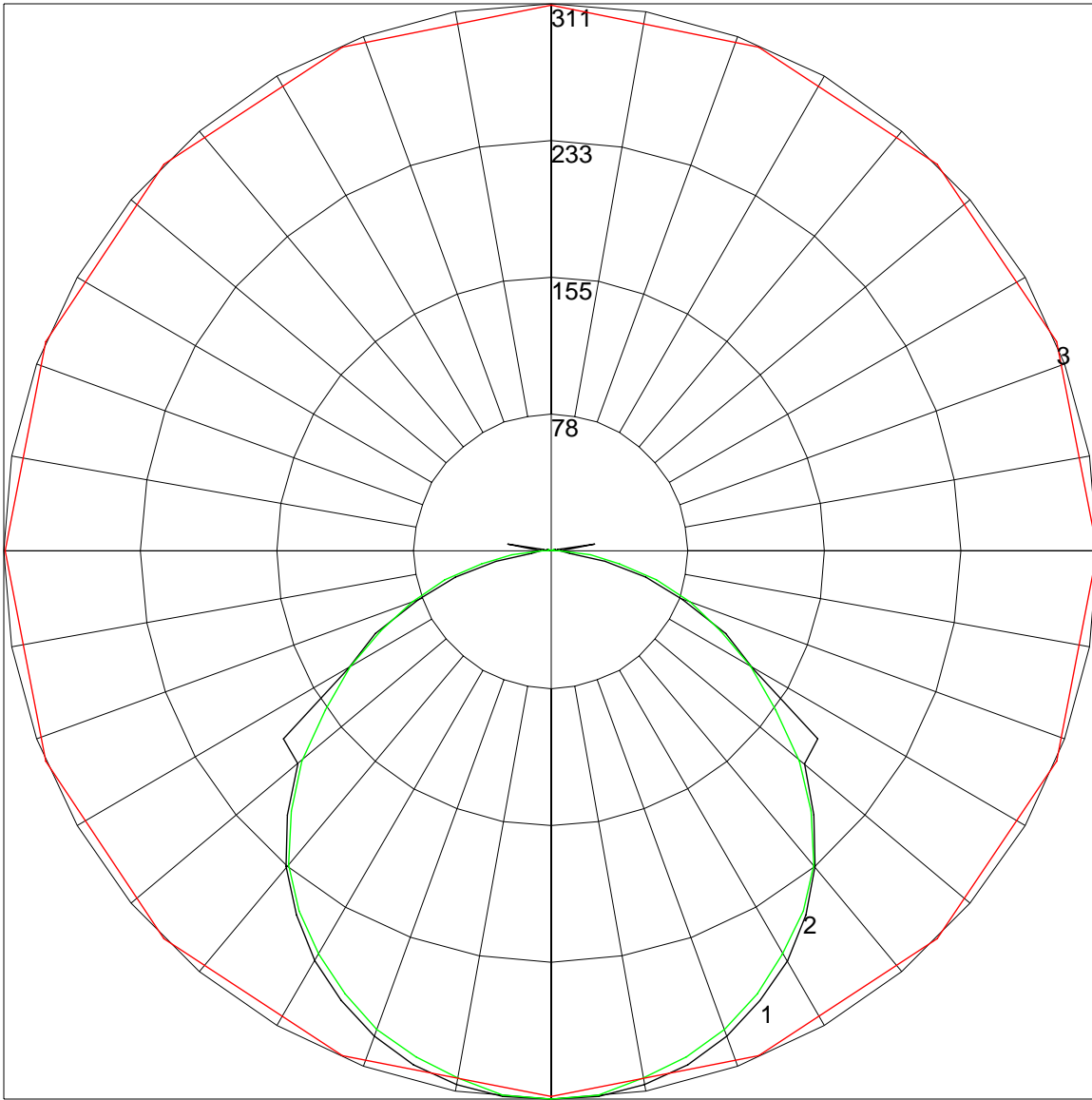
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	97	93	90	92	90	87	89	87	85	82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

POLAR GRAPH



Maximum Candela = 310.876 Located At Horizontal Angle = 22.5, Vertical Angle = 5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) : BLACK
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270) : GREEN
- # 3 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.) : RED