



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TT[U, H][F, A]24L-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 12550583.05  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 11/19/2018  
 [MANUFAC] Lamar Lighting Co Inc  
 [LUMCAT] TT[U, H][blank, F, A]24L-30-[blank, EM]  
 [LUMINAIRE] White formed steel housing, frosted lens enclosure  
 [LAMP] 56 white LED's  
 [BALLAST] Osram OT30W/PRG1050C/UNV/DIM/L  
 [OTHER] 25 C, 120.021 V, 0.092248 A, 10.9176 W, 0.986079 PF, 59.9709 H  
 [OTHER] This test was performed using the calibrated photodetector met  
 [MORE] hod of absolute photometry.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1295
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	10.9176
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.38 ft
Luminous Height	0.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4069	3729	4001
55	3256	3183	3583
65	2421	2704	3177
75	1600	2291	2860
85	627	1954	2537

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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>0.0</b>	407.70	407.70	407.70	407.70	407.70
<b>0.5</b>	407.90	408.60	407.00	406.40	409.30
<b>1.0</b>	407.60	408.40	407.00	406.30	409.10
<b>1.5</b>	407.50	408.20	406.70	406.20	408.90
<b>2.0</b>	407.30	408.00	406.50	405.90	408.60
<b>2.5</b>	407.10	407.70	406.20	405.50	408.20
<b>3.0</b>	406.70	407.40	405.90	405.10	407.80
<b>3.5</b>	406.30	407.10	405.50	404.70	407.40
<b>4.0</b>	405.90	406.60	405.10	404.30	407.00
<b>4.5</b>	405.40	406.10	404.70	403.80	406.50
<b>5.0</b>	404.80	405.50	404.10	403.40	406.20
<b>5.5</b>	404.20	404.90	403.60	403.00	405.90
<b>6.0</b>	403.60	404.30	403.10	402.60	405.40
<b>6.5</b>	402.90	403.80	402.60	402.20	405.10
<b>7.0</b>	402.30	403.10	402.00	401.80	404.70
<b>7.5</b>	401.50	402.30	401.50	401.40	404.20
<b>8.0</b>	400.70	401.60	400.90	401.00	404.00
<b>8.5</b>	399.90	401.00	400.40	400.60	403.50
<b>9.0</b>	399.00	400.20	399.90	400.20	403.20
<b>9.5</b>	398.20	399.40	399.20	399.70	402.70
<b>10.0</b>	397.20	398.50	398.50	399.30	402.30
<b>10.5</b>	396.30	397.60	397.90	398.80	401.90
<b>11.0</b>	395.20	396.70	397.20	398.30	401.50
<b>11.5</b>	394.10	395.70	396.50	397.70	401.00
<b>12.0</b>	392.90	394.60	395.60	397.20	400.50
<b>12.5</b>	391.70	393.50	394.70	396.50	400.00
<b>13.0</b>	390.40	392.30	393.70	395.70	399.30
<b>13.5</b>	389.10	391.10	392.70	394.90	398.50
<b>14.0</b>	387.80	389.70	391.50	393.90	397.70
<b>14.5</b>	386.30	388.40	390.40	392.90	396.70
<b>15.0</b>	384.80	387.00	389.20	391.80	395.60
<b>15.5</b>	383.30	385.60	388.00	390.60	394.40
<b>16.0</b>	381.80	384.10	386.60	389.40	393.10
<b>16.5</b>	380.10	382.60	385.20	388.10	391.80
<b>17.0</b>	378.50	381.00	383.80	386.90	390.60
<b>17.5</b>	376.70	379.40	382.40	385.50	389.40
<b>18.0</b>	375.00	377.80	381.00	384.20	388.10
<b>18.5</b>	373.10	376.10	379.50	382.90	386.80
<b>19.0</b>	371.10	374.30	378.10	381.80	385.50
<b>19.5</b>	369.30	372.60	376.60	380.60	384.50
<b>20.0</b>	367.20	370.60	375.10	379.40	383.50
<b>20.5</b>	365.10	368.70	373.60	378.30	382.40
<b>21.0</b>	362.90	366.80	372.10	377.10	381.30
<b>21.5</b>	360.70	364.80	370.60	375.90	380.20
<b>22.0</b>	358.80	362.70	368.90	374.60	379.10
<b>22.5</b>	356.40	360.50	367.10	373.20	377.80
<b>23.0</b>	354.10	358.30	365.30	371.80	376.50
<b>23.5</b>	351.50	356.10	363.40	370.30	375.10
<b>24.0</b>	349.20	353.80	361.50	368.80	373.60
<b>24.5</b>	346.60	351.40	359.60	367.10	372.10
<b>25.0</b>	343.90	348.90	357.40	365.40	370.50
<b>25.5</b>	341.20	346.50	355.40	363.60	368.70
<b>26.0</b>	338.30	344.00	353.20	361.70	367.10
<b>26.5</b>	335.60	341.40	351.00	359.90	365.30

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**CANDELA TABULATION - (Cont.)**

27.0	332.60	338.70	348.80	358.00	363.50
27.5	329.60	336.10	346.50	356.10	361.80
28.0	326.80	333.40	344.30	354.10	360.00
28.5	323.70	330.50	342.00	352.40	358.30
29.0	320.70	327.80	339.80	350.60	356.50
29.5	317.70	325.00	337.50	348.70	354.90
30.0	314.70	322.10	335.20	347.00	353.20
30.5	311.70	319.30	333.00	345.10	351.50
31.0	308.60	316.50	330.60	343.40	349.80
31.5	305.60	313.60	328.30	341.60	348.20
32.0	302.40	310.70	326.00	339.80	346.60
32.5	299.30	307.70	323.60	338.00	344.80
33.0	296.10	304.80	321.20	336.10	343.20
33.5	293.00	301.90	318.80	334.20	341.40
34.0	289.80	298.90	316.40	332.30	339.50
34.5	286.40	295.90	313.90	330.30	337.80
35.0	283.10	292.90	311.50	328.40	335.90
35.5	279.60	289.70	308.90	326.30	334.00
36.0	276.20	286.70	306.40	324.30	332.10
36.5	272.70	283.40	304.00	322.30	330.20
37.0	269.40	280.30	301.30	320.20	328.30
37.5	265.80	277.20	298.90	318.10	326.30
38.0	262.40	274.00	296.20	316.10	324.40
38.5	259.10	270.80	293.70	313.90	322.40
39.0	255.60	267.60	291.10	311.80	320.20
39.5	252.10	264.30	288.50	309.70	318.20
40.0	248.60	261.10	285.90	307.50	316.20
40.5	245.20	257.80	283.20	305.30	314.00
41.0	241.70	254.60	280.50	303.10	311.80
41.5	238.10	251.30	277.80	300.90	309.70
42.0	234.60	248.00	275.20	298.60	307.50
42.5	231.10	244.60	272.60	296.30	305.30
43.0	227.50	241.30	269.80	294.00	303.10
43.5	224.00	238.00	267.10	291.80	300.90
44.0	220.40	234.60	264.40	289.40	298.60
44.5	216.90	231.30	261.70	287.20	296.40
45.0	213.20	228.00	258.90	284.80	294.00
45.5	209.60	224.50	256.20	282.50	291.80
46.0	206.10	221.20	253.50	280.20	289.60
46.5	202.40	217.90	250.70	277.70	287.30
47.0	198.80	214.50	248.00	275.30	284.90
47.5	195.10	211.10	245.20	273.00	282.50
48.0	191.60	207.80	242.40	270.60	280.30
48.5	188.00	204.40	239.70	268.20	278.00
49.0	185.10	201.10	237.00	265.90	275.50
49.5	181.60	197.70	234.20	263.40	273.20
50.0	178.70	194.40	231.40	261.00	270.80
50.5	175.20	191.40	228.60	258.70	268.50
51.0	171.70	188.10	225.80	256.20	265.90
51.5	168.20	185.00	223.00	253.70	263.50
52.0	164.70	181.80	220.30	251.30	261.00
52.5	161.30	178.80	217.50	248.80	258.70
53.0	157.80	175.50	214.80	246.30	256.30
53.5	154.40	172.50	212.00	243.90	253.70
54.0	151.00	169.40	209.20	241.40	251.20
54.5	147.60	166.10	206.50	238.90	248.70

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**CANDELA TABULATION - (Cont.)**

55.0	144.20	162.90	203.80	236.30	246.20
55.5	140.80	159.80	201.00	233.80	243.60
56.0	137.50	156.60	198.30	231.20	241.10
56.5	134.20	153.50	195.60	228.70	238.50
57.0	131.00	150.40	192.90	226.10	235.90
57.5	127.80	147.30	190.50	223.60	233.40
58.0	124.60	144.20	187.90	221.00	230.80
58.5	121.50	141.20	185.30	218.70	228.30
59.0	118.40	138.20	182.90	216.10	225.80
59.5	115.30	135.20	180.40	213.60	223.30
60.0	112.30	132.20	177.90	211.10	220.90
60.5	109.30	129.30	175.40	208.60	218.30
61.0	106.50	126.40	173.10	206.30	215.90
61.5	103.60	123.50	170.50	203.90	213.40
62.0	100.70	120.70	167.90	201.50	210.90
62.5	97.89	117.90	165.40	199.10	208.50
63.0	95.09	115.20	162.90	196.70	206.10
63.5	92.35	112.40	160.40	194.30	203.70
64.0	89.62	109.80	158.00	191.90	201.30
64.5	86.94	107.10	155.60	189.90	198.90
65.0	84.31	104.50	153.20	187.60	196.50
65.5	81.71	102.00	150.80	185.60	194.20
66.0	79.16	99.48	148.50	183.40	192.00
66.5	76.63	97.01	146.20	181.10	189.70
67.0	74.17	94.55	143.90	179.20	188.10
67.5	71.72	92.12	141.60	176.90	185.70
68.0	69.31	89.72	139.30	174.90	183.50
68.5	66.94	87.35	137.00	172.70	181.20
69.0	64.57	85.00	134.80	170.40	178.80
69.5	62.23	82.63	132.50	168.10	177.20
70.0	59.95	80.32	130.20	165.80	174.80
70.5	57.68	78.04	128.00	163.50	172.50
71.0	55.45	75.79	125.80	161.30	170.10
71.5	53.24	73.58	123.60	159.00	167.80
72.0	51.07	71.40	121.40	156.80	165.50
72.5	48.95	69.27	119.30	154.60	163.20
73.0	46.85	67.18	117.20	152.50	161.00
73.5	44.80	65.14	115.10	150.30	158.60
74.0	42.79	63.13	113.00	148.10	156.40
74.5	40.82	61.15	111.00	145.90	154.20
75.0	38.89	59.21	109.00	143.70	151.90
75.5	36.99	57.31	106.90	141.60	149.60
76.0	35.12	55.46	104.90	139.30	147.30
76.5	33.29	53.62	102.90	137.20	145.00
77.0	31.48	51.82	100.90	134.90	142.70
77.5	29.72	50.03	98.91	132.70	140.40
78.0	28.00	48.28	96.93	130.50	138.10
78.5	26.30	46.57	94.97	128.30	135.80
79.0	24.67	44.89	93.05	126.10	133.50
79.5	23.06	43.27	91.14	124.00	131.20
80.0	21.50	41.68	89.28	121.90	129.00
80.5	20.00	40.14	87.46	119.80	126.80
81.0	18.52	38.64	85.66	117.80	124.70
81.5	17.11	37.19	83.90	115.80	122.60
82.0	15.71	35.77	82.17	113.80	120.50
82.5	14.37	34.39	80.48	111.90	118.50

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**CANDELA TABULATION - (Cont.)**

83.0	13.06	33.04	78.82	109.90	116.40
83.5	11.79	31.74	77.19	108.00	114.40
84.0	10.55	30.50	75.57	106.20	112.40
84.5	9.35	29.27	73.98	104.30	110.40
85.0	8.19	28.09	72.42	102.40	108.50
85.5	7.06	26.94	70.86	100.60	106.50
86.0	5.95	25.84	69.36	98.70	104.60
86.5	4.86	24.76	67.86	96.87	102.60
87.0	3.80	23.72	66.39	95.06	100.70
87.5	2.76	22.73	64.94	93.24	98.84
88.0	1.76	21.75	63.49	91.47	96.93
88.5	1.00	20.83	62.09	89.72	95.14
89.0	0.48	19.93	60.71	87.99	93.28
89.5	0.00	19.07	59.36	86.30	91.51
90.0	0.00	18.23	57.98	84.57	89.69
90.5	0.00	17.41	56.63	82.85	87.84
91.0	0.00	16.63	55.29	81.13	86.05
91.5	0.00	15.88	53.96	79.44	84.20
92.0	0.00	15.14	52.68	77.75	82.42
92.5	0.00	14.43	51.37	76.06	80.61
93.0	0.00	13.76	50.10	74.39	78.82
93.5	0.00	13.11	48.85	72.70	77.05
94.0	0.00	12.47	47.61	71.07	75.29
94.5	0.00	11.88	46.40	69.43	73.57
95.0	0.00	11.31	45.20	67.83	71.84
95.5	0.00	10.76	44.02	66.23	70.15
96.0	0.00	10.24	42.86	64.61	68.47
96.5	0.00	9.74	41.72	63.05	66.79
97.0	0.00	9.27	40.59	61.51	65.16
97.5	0.00	8.80	39.52	60.00	63.52
98.0	0.00	8.36	38.45	58.50	61.94
98.5	0.00	7.93	37.40	57.01	60.39
99.0	0.00	7.51	36.38	55.59	58.86
99.5	0.00	7.11	35.37	54.16	57.33
100.0	0.00	6.73	34.39	52.78	55.86
100.5	0.00	6.36	33.40	51.41	54.41
101.0	0.00	6.01	32.47	50.07	52.98
101.5	0.00	5.68	31.53	48.77	51.59
102.0	0.00	5.36	30.62	47.48	50.23
102.5	0.00	5.07	29.72	46.22	48.89
103.0	0.00	4.79	28.84	45.00	47.59
103.5	0.00	4.52	27.99	43.79	46.29
104.0	0.00	4.26	27.15	42.59	45.04
104.5	0.00	4.01	26.32	41.42	43.81
105.0	0.00	3.78	25.49	40.28	42.59
105.5	0.00	3.55	24.69	39.15	41.40
106.0	0.00	3.33	23.90	38.05	40.23
106.5	0.00	3.13	23.12	36.96	39.12
107.0	0.00	2.92	22.35	35.90	37.98
107.5	0.00	2.73	21.60	34.84	36.89
108.0	0.00	2.53	20.86	33.81	35.83
108.5	0.00	2.35	20.13	32.80	34.76
109.0	0.00	2.18	19.43	31.81	33.75
109.5	0.00	2.01	18.74	30.85	32.75
110.0	0.00	1.86	18.06	29.88	31.78
110.5	0.00	1.71	17.41	28.96	30.84

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**CANDELA TABULATION - (Cont.)**

111.0	0.00	1.58	16.77	28.05	29.91
111.5	0.00	1.46	16.15	27.16	29.00
112.0	0.00	1.33	15.55	26.29	28.11
112.5	0.00	1.21	14.98	25.44	27.24
113.0	0.00	1.08	14.41	24.62	26.39
113.5	0.00	0.97	13.86	23.82	25.54
114.0	0.00	0.85	13.33	23.02	24.75
114.5	0.00	0.76	12.82	22.25	23.95
115.0	0.00	0.68	12.32	21.49	23.16
115.5	0.00	0.61	11.85	20.74	22.41
116.0	0.00	0.56	11.38	20.04	21.68
116.5	0.00	0.51	10.93	19.34	20.96
117.0	0.00	0.46	10.50	18.65	20.24
117.5	0.00	0.40	10.08	17.99	19.59
118.0	0.00	0.35	9.66	17.36	18.93
118.5	0.00	0.30	9.26	16.74	18.29
119.0	0.00	0.25	8.88	16.13	17.67
119.5	0.00	0.21	8.50	15.55	17.07
120.0	0.00	0.16	8.13	14.98	16.48
120.5	0.00	0.12	7.76	14.42	15.91
121.0	0.00	0.08	7.41	13.89	15.35
121.5	0.00	0.05	7.06	13.37	14.82
122.0	0.00	0.03	6.73	12.87	14.28
122.5	0.00	0.01	6.41	12.39	13.77
123.0	0.00	0.00	6.10	11.91	13.28
123.5	0.00	0.00	5.80	11.47	12.80
124.0	0.00	0.00	5.51	11.03	12.35
124.5	0.00	0.00	5.23	10.60	11.90
125.0	0.00	0.00	4.95	10.19	11.46
125.5	0.00	0.00	4.70	9.79	11.05
126.0	0.00	0.00	4.45	9.40	10.64
126.5	0.00	0.00	4.21	9.02	10.25
127.0	0.00	0.00	3.97	8.65	9.86
127.5	0.00	0.00	3.72	8.29	9.49
128.0	0.00	0.00	3.45	7.93	9.12
128.5	0.00	0.00	3.19	7.58	8.76
129.0	0.00	0.00	2.98	7.24	8.42
129.5	0.00	0.00	2.78	6.91	8.08
130.0	0.00	0.00	2.61	6.59	7.74
130.5	0.00	0.00	2.44	6.28	7.41
131.0	0.00	0.00	2.26	5.97	7.09
131.5	0.00	0.00	2.08	5.68	6.77
132.0	0.00	0.00	1.91	5.38	6.46
132.5	0.00	0.00	1.74	5.10	6.16
133.0	0.00	0.00	1.57	4.83	5.86
133.5	0.00	0.00	1.41	4.58	5.58
134.0	0.00	0.00	1.25	4.33	5.29
134.5	0.00	0.00	1.12	4.09	5.02
135.0	0.00	0.00	1.00	3.85	4.75
135.5	0.00	0.00	0.90	3.62	4.50
136.0	0.00	0.00	0.82	3.39	4.26
136.5	0.00	0.00	0.74	3.18	4.03
137.0	0.00	0.00	0.67	2.96	3.79
137.5	0.00	0.00	0.59	2.76	3.56
138.0	0.00	0.00	0.52	2.55	3.34
138.5	0.00	0.00	0.45	2.35	3.12

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TT[U, H][F, A]24L-30.IES**

**CANDELA TABULATION - (Cont.)**

139.0	0.00	0.00	0.37	2.14	2.91
139.5	0.00	0.00	0.31	1.92	2.70
140.0	0.00	0.00	0.24	1.71	2.50
140.5	0.00	0.00	0.17	1.49	2.30
141.0	0.00	0.00	0.11	1.30	2.10
141.5	0.00	0.00	0.05	1.13	1.91
142.0	0.00	0.00	0.02	1.02	1.70
142.5	0.00	0.00	0.00	0.93	1.52
143.0	0.00	0.00	0.00	0.84	1.31
143.5	0.00	0.00	0.00	0.76	1.14
144.0	0.00	0.00	0.00	0.68	1.03
144.5	0.00	0.00	0.00	0.60	0.94
145.0	0.00	0.00	0.00	0.52	0.85
145.5	0.00	0.00	0.00	0.44	0.76
146.0	0.00	0.00	0.00	0.36	0.68
146.5	0.00	0.00	0.00	0.29	0.59
147.0	0.00	0.00	0.00	0.21	0.52
147.5	0.00	0.00	0.00	0.14	0.44
148.0	0.00	0.00	0.00	0.07	0.35
148.5	0.00	0.00	0.00	0.01	0.28
149.0	0.00	0.00	0.00	0.00	0.20
149.5	0.00	0.00	0.00	0.00	0.13
150.0	0.00	0.00	0.00	0.00	0.06
150.5	0.00	0.00	0.00	0.00	0.00
151.0	0.00	0.00	0.00	0.00	0.00
151.5	0.00	0.00	0.00	0.00	0.00
152.0	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00
153.0	0.00	0.00	0.00	0.00	0.00
153.5	0.00	0.00	0.00	0.00	0.00
154.0	0.00	0.00	0.00	0.00	0.00
154.5	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00
155.5	0.00	0.00	0.00	0.00	0.00
156.0	0.00	0.00	0.00	0.00	0.00
156.5	0.00	0.00	0.00	0.00	0.00
157.0	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00
158.0	0.00	0.00	0.00	0.00	0.00
158.5	0.00	0.00	0.00	0.00	0.00
159.0	0.00	0.00	0.00	0.00	0.00
159.5	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00
160.5	0.00	0.00	0.00	0.00	0.00
161.0	0.00	0.00	0.00	0.00	0.00
161.5	0.00	0.00	0.00	0.00	0.00
162.0	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00
163.0	0.00	0.00	0.00	0.00	0.00
163.5	0.00	0.00	0.00	0.00	0.00
164.0	0.00	0.00	0.00	0.00	0.00
164.5	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00
165.5	0.00	0.00	0.00	0.00	0.00
166.0	0.00	0.00	0.00	0.00	0.00
166.5	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TT[U, H][F, A]24L-30.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	0.00	0.00	0.00	0.00	0.00
<b>167.5</b>	0.00	0.00	0.00	0.00	0.00
<b>168.0</b>	0.00	0.00	0.00	0.00	0.00
<b>168.5</b>	0.00	0.00	0.00	0.00	0.00
<b>169.0</b>	0.00	0.00	0.00	0.00	0.00
<b>169.5</b>	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00
<b>170.5</b>	0.00	0.00	0.00	0.00	0.00
<b>171.0</b>	0.00	0.00	0.00	0.00	0.00
<b>171.5</b>	0.00	0.00	0.00	0.00	0.00
<b>172.0</b>	0.00	0.00	0.00	0.00	0.00
<b>172.5</b>	0.00	0.00	0.00	0.00	0.00
<b>173.0</b>	0.00	0.00	0.00	0.00	0.00
<b>173.5</b>	0.00	0.00	0.00	0.00	0.00
<b>174.0</b>	0.00	0.00	0.00	0.00	0.00
<b>174.5</b>	0.00	0.00	0.00	0.00	0.00
<b>175.0</b>	0.00	0.00	0.00	0.00	0.00
<b>175.5</b>	0.00	0.00	0.00	0.00	0.00
<b>176.0</b>	0.00	0.00	0.00	0.00	0.00
<b>176.5</b>	0.00	0.00	0.00	0.00	0.00
<b>177.0</b>	0.00	0.00	0.00	0.00	0.00
<b>177.5</b>	0.00	0.00	0.00	0.00	0.00
<b>178.0</b>	0.00	0.00	0.00	0.00	0.00
<b>178.5</b>	0.00	0.00	0.00	0.00	0.00
<b>179.0</b>	0.00	0.00	0.00	0.00	0.00
<b>179.5</b>	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TT[U, H][F, A]24L-30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	148.25	N.A.	11.40
0-30	312.61	N.A.	24.10
0-40	506.77	N.A.	39.10
0-60	883.18	N.A.	68.20
0-80	1136.54	N.A.	87.80
0-90	1208.23	N.A.	93.30
10-90	1169.79	N.A.	90.30
20-40	358.53	N.A.	27.70
20-50	556.32	N.A.	43.00
40-70	521.94	N.A.	40.30
60-80	253.36	N.A.	19.60
70-80	107.83	N.A.	8.30
80-90	71.69	N.A.	5.50
90-110	68.39	N.A.	5.30
90-120	80.10	N.A.	6.20
90-130	84.93	N.A.	6.60
90-150	86.61	N.A.	6.70
90-180	86.61	N.A.	6.70
110-180	18.21	N.A.	1.40
0-180	1294.84	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.45
10-20	109.80
20-30	164.36
30-40	194.16
40-50	197.80
50-60	178.62
60-70	145.53
70-80	107.83
80-90	71.69
90-100	44.06
100-110	24.34
110-120	11.71
120-130	4.83
130-140	1.49
140-150	0.18
150-160	0.00
160-170	0.00
170-180	0.00

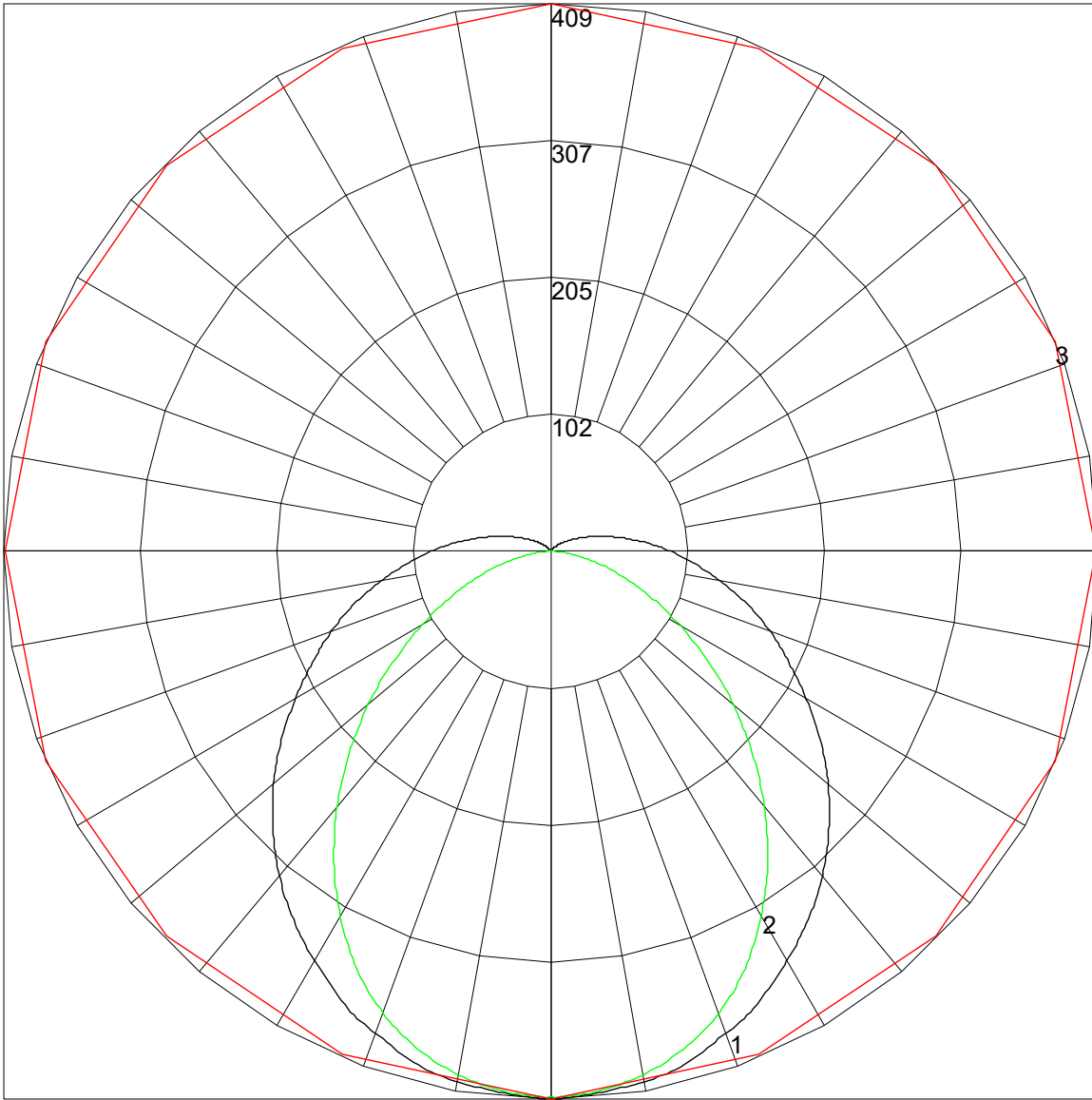
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TT[U, H][F, A]24L-30.IES**

**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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	100	95	91	102	97	93	89	92	88	85	86	83	81	82	79	77	75
2	95	87	79	73	92	84	77	72	79	74	69	75	70	66	71	67	64	61
3	87	76	67	60	84	74	66	59	70	63	57	66	60	55	63	58	54	51
4	79	67	58	51	77	65	57	50	62	54	49	59	52	47	56	50	46	44
5	73	60	51	44	70	58	50	43	55	48	42	53	46	41	50	44	40	38
6	67	54	45	38	65	52	44	38	50	42	37	48	41	36	45	40	35	33
7	63	49	40	34	60	48	39	33	45	38	33	43	37	32	42	36	31	29
8	58	45	36	30	56	44	35	30	42	34	29	40	33	29	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	29	25	23
10	51	38	30	24	49	37	29	24	35	29	24	34	28	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 409.3 Located At Horizontal Angle = 90, Vertical Angle = .5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Vertical Plane Through Horizontal Angles (0 - 180)

# 3 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)