

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ST4N2NML-STANDBY.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[ISSUE]DATE]09/21/10  
[TEST]ITL65755  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[MANUFAC]TECHNICAL CONSUMER PRODUCTS, INC.  
[LUMCAT]ST4N2NML-STANDBY  
[LUMINAIRE]FORMED WHITE PAINTED METAL HOUSING, FORMED WHITE PAINTED  
[MORE]METAL SOCKET MOUNTING BRACKETS AND END CAPS, FORMED WHITE PAINTED  
[MORE]METAL REFLECTOR, FORMED WHITE PAINTED PERFORATED METAL DIFFUSER  
[MORE]WITH FROSTED PLASTIC OVERLAY. OVERLAY FROSTED SIDE UP.  
[LAMP]ONE 17-WATT T-8 PHILIPS F17T8/TL841 LINEAR FLUORESCENT.  
[BALLAST]GE GE132MAX-N/ULTRA  
[\_ MOUNTING]WALL  
[\_ NOTE]TWO 32-WATT T-8 LAMPS INSTALLED BUT NOT ENERGIZED FOR THIS TEST.  
[\_ PAINTREFL]83.3 %  
[OTHER]THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.  
[OTHER]TOTAL INPUT WATTS = 15.3 AT 120.0 VOLTS  
[OTHER]LUMEN TO CANDELA RATIO USED = 9.15

**CHARACTERISTICS**

Total Rated Lamp Lumens	1400
Total Luminaire Efficiency	38.4 %
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criteria (0-180)	N.A.
Spacing Criteria (90-270)	N.A.
Spacing Criteria (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	3.93 ft
Luminous Height	0.49 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	894	709	186
55	944	744	124
65	984	764	58
75	1012	785	0
85	1046	813	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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0.0</b>	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
<b>2.5</b>	21.8	20.0	19.7	17.5	15.9	14.6	13.1	12.9	12.1
<b>5.0</b>	27.1	23.8	22.8	19.0	15.8	13.5	11.4	11.0	10.2
<b>7.5</b>	33.2	30.1	26.8	20.6	15.7	12.5	10.2	9.3	8.5
<b>10.0</b>	42.1	36.9	31.3	21.8	15.4	11.5	8.8	7.8	7.0
<b>12.5</b>	47.6	44.1	36.2	23.4	15.0	10.6	7.6	6.3	5.7
<b>15.0</b>	54.4	49.4	41.0	25.2	14.8	9.7	6.7	5.3	4.9
<b>17.5</b>	61.8	55.2	44.9	26.7	14.2	9.0	5.5	4.5	4.2
<b>20.0</b>	68.7	61.7	48.8	28.7	13.5	7.9	4.8	4.1	3.6
<b>22.5</b>	76.6	67.7	53.1	30.4	13.1	7.1	4.2	3.6	3.0
<b>25.0</b>	83.8	74.1	56.3	32.3	12.4	6.0	3.5	2.7	2.7
<b>27.5</b>	91.8	80.9	59.8	33.6	11.6	5.3	3.1	2.5	2.3
<b>30.0</b>	100.0	88.5	64.0	34.5	11.1	4.5	2.6	2.3	1.5
<b>32.5</b>	108.3	95.2	68.2	35.1	10.5	4.0	2.4	1.6	1.3
<b>35.0</b>	115.9	101.7	72.4	35.6	9.6	3.4	2.1	1.1	0.8
<b>37.5</b>	121.4	108.0	75.7	35.5	8.5	2.4	1.2	0.2	0.0
<b>40.0</b>	128.8	113.9	80.1	35.7	7.7	2.0	0.6	0.0	0.0
<b>42.5</b>	135.4	120.4	83.8	35.6	7.0	1.7	0.2	0.0	0.0
<b>45.0</b>	140.7	125.4	86.9	35.6	6.2	1.4	0.0	0.0	0.0
<b>47.5</b>	147.0	130.6	90.3	35.5	5.6	1.1	0.0	0.0	0.0
<b>50.0</b>	152.3	135.6	93.3	35.6	4.9	0.7	0.0	0.0	0.0
<b>52.5</b>	157.6	140.1	95.8	35.5	4.1	0.7	0.0	0.0	0.0
<b>55.0</b>	162.4	144.3	98.0	35.2	3.5	0.4	0.0	0.0	0.0
<b>57.5</b>	166.9	147.8	99.9	35.0	2.9	0.0	0.0	0.0	0.0
<b>60.0</b>	171.1	151.6	101.6	34.7	2.2	0.0	0.0	0.0	0.0
<b>62.5</b>	175.1	154.9	103.0	34.4	1.6	0.0	0.0	0.0	0.0
<b>65.0</b>	178.5	157.4	104.6	33.8	1.3	0.0	0.0	0.0	0.0
<b>67.5</b>	181.5	160.1	105.5	33.3	0.7	0.0	0.0	0.0	0.0
<b>70.0</b>	184.0	162.4	106.5	32.7	0.3	0.0	0.0	0.0	0.0
<b>72.5</b>	185.9	164.7	107.5	32.0	0.0	0.0	0.0	0.0	0.0
<b>75.0</b>	187.6	166.4	108.2	31.6	0.0	0.0	0.0	0.0	0.0
<b>77.5</b>	189.1	167.8	108.7	31.0	0.0	0.0	0.0	0.0	0.0
<b>80.0</b>	190.4	169.1	109.1	30.7	0.0	0.0	0.0	0.0	0.0
<b>82.5</b>	191.4	170.0	109.4	30.2	0.0	0.0	0.0	0.0	0.0
<b>85.0</b>	192.1	170.6	109.4	29.9	0.0	0.0	0.0	0.0	0.0
<b>87.5</b>	192.7	170.8	109.1	29.7	0.0	0.0	0.0	0.0	0.0
<b>90.0</b>	192.3	170.1	108.7	29.5	0.0	0.0	0.0	0.0	0.0
<b>92.5</b>	191.2	169.3	108.1	29.4	0.0	0.0	0.0	0.0	0.0
<b>95.0</b>	190.6	169.0	107.9	29.6	0.0	0.0	0.0	0.0	0.0
<b>97.5</b>	189.7	168.3	107.8	29.8	0.0	0.0	0.0	0.0	0.0
<b>100.0</b>	188.5	167.2	107.2	30.2	0.0	0.0	0.0	0.0	0.0
<b>102.5</b>	186.8	165.7	106.6	30.7	0.0	0.0	0.0	0.0	0.0
<b>105.0</b>	185.1	164.2	105.9	31.2	0.0	0.0	0.0	0.0	0.0
<b>107.5</b>	182.5	162.1	105.0	31.8	0.3	0.0	0.0	0.0	0.0
<b>110.0</b>	180.2	159.8	104.1	32.4	0.7	0.0	0.0	0.0	0.0
<b>112.5</b>	177.5	157.1	103.0	32.9	1.1	0.0	0.0	0.0	0.0
<b>115.0</b>	174.1	154.3	101.3	33.4	1.5	0.0	0.0	0.0	0.0
<b>117.5</b>	170.7	151.3	99.6	33.8	2.1	0.0	0.0	0.0	0.0
<b>120.0</b>	166.7	147.4	97.8	34.3	2.9	0.0	0.0	0.0	0.0
<b>122.5</b>	162.9	144.4	96.3	34.9	3.9	0.0	0.0	0.0	0.0
<b>125.0</b>	158.4	139.6	94.2	35.2	4.7	0.5	0.0	0.0	0.0
<b>127.5</b>	152.7	135.6	91.5	35.2	5.5	0.8	0.0	0.0	0.0
<b>130.0</b>	147.8	130.3	88.9	35.2	6.1	1.2	0.0	0.0	0.0
<b>132.5</b>	141.7	125.0	85.6	35.2	7.0	1.5	0.0	0.0	0.0

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	135.4	119.7	82.3	35.1	8.0	1.9	0.0	0.0	0.0
<b>137.5</b>	129.0	113.4	78.9	34.7	8.6	2.3	0.5	0.0	0.6
<b>140.0</b>	121.2	107.5	74.9	34.2	9.4	2.7	0.8	0.5	0.6
<b>142.5</b>	114.4	101.2	71.5	34.1	10.4	3.4	1.4	0.8	0.8
<b>145.0</b>	107.5	94.8	67.2	33.4	11.1	4.1	1.7	1.1	1.1
<b>147.5</b>	99.2	88.1	63.6	32.5	11.8	4.8	2.3	1.5	1.1
<b>150.0</b>	91.2	81.3	59.0	31.6	12.6	5.5	3.0	1.9	1.5
<b>152.5</b>	83.8	74.8	55.2	30.7	13.2	6.1	3.4	2.4	1.9
<b>155.0</b>	76.4	67.4	51.2	29.5	13.7	7.0	4.1	3.1	2.5
<b>157.5</b>	69.0	61.1	47.1	28.3	14.4	7.8	4.9	3.7	3.2
<b>160.0</b>	60.9	54.4	43.4	27.0	15.0	9.0	5.5	4.5	4.0
<b>162.5</b>	53.1	48.3	39.0	25.8	15.4	9.7	6.6	5.3	4.7
<b>165.0</b>	46.3	42.3	35.5	24.1	15.9	10.7	7.7	6.2	5.7
<b>167.5</b>	40.0	36.4	31.6	22.3	16.2	11.7	8.9	7.5	7.0
<b>170.0</b>	33.6	31.0	27.5	21.2	16.6	12.8	10.3	9.2	8.7
<b>172.5</b>	28.1	25.7	23.8	19.9	16.7	13.9	11.8	11.2	10.2
<b>175.0</b>	22.4	21.4	20.7	18.7	16.8	15.1	13.5	13.1	12.3
<b>177.5</b>	18.8	18.1	18.3	17.6	16.9	16.4	15.5	15.4	15.0
<b>180.0</b>	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	21.71	1.6	4
0-40	43.95	3.1	8.2
0-60	116.18	8.3	21.6
0-90	272.18	19.4	50.7
90-120	153.63	11	28.6
90-130	193.2	13.8	36
90-150	244.72	17.5	45.6
90-180	265.05	18.9	49.3
0-180	537.23	38.4	100

Total Luminaire Efficiency = 38.4%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.71
10-20	6.52
20-30	13.47
30-40	22.24
40-50	31.62
50-60	40.62
60-70	47.87
70-80	52.84
80-90	55.29
90-100	54.78
100-110	52.03
110-120	46.82
120-130	39.56
130-140	30.46
140-150	21.06
150-160	12.58
160-170	6.06
170-180	1.69

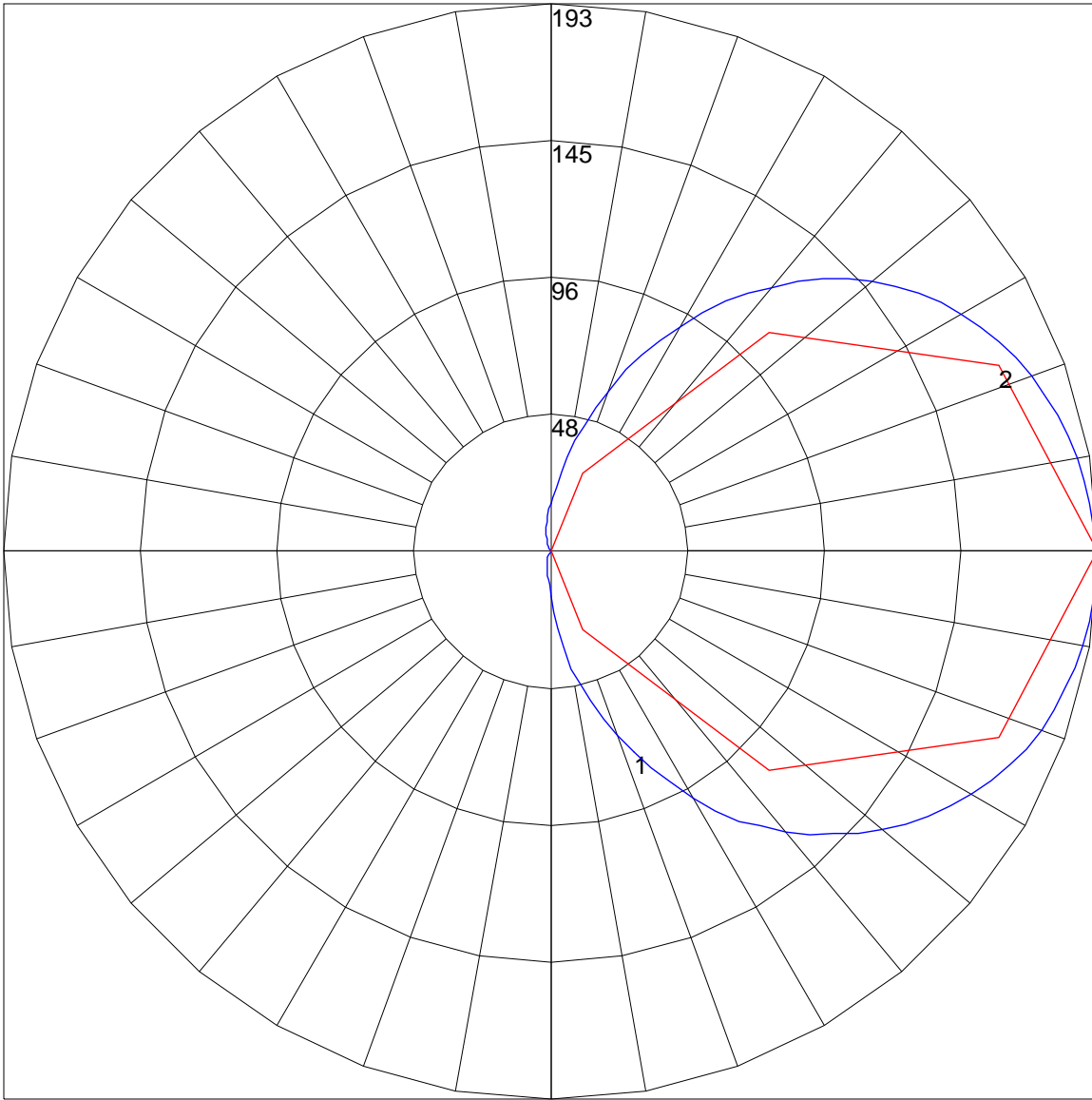
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	41	41	41	41	38	38	38	38	32	32	32	27	27	27	22	22	22	19
1	36	33	31	29	33	30	28	27	25	24	22	20	19	18	16	15	14	12
2	32	28	25	22	29	25	23	20	21	19	17	17	15	14	13	12	11	9
3	28	24	20	17	26	22	19	16	18	15	13	14	12	11	11	9	8	7
4	26	21	17	14	23	19	16	13	15	13	11	12	10	9	9	8	7	5
5	23	18	14	12	21	17	13	11	14	11	9	11	9	7	8	7	5	4
6	21	16	12	10	19	15	11	9	12	9	8	10	8	6	7	6	4	3
7	20	14	11	8	18	13	10	8	11	8	6	9	7	5	7	5	4	3
8	18	13	10	7	17	12	9	7	10	7	6	8	6	4	6	4	3	2
9	17	12	9	6	15	11	8	6	9	7	5	7	5	4	5	4	3	2
10	16	11	8	6	14	10	7	5	8	6	4	7	5	3	5	4	3	2

POLAR GRAPH



Maximum Candela = 192.7 Located At Horizontal Angle = 0, Vertical Angle = 87.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (87.5) (Through Max. Cd.)