

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3R-LL-00-3-GR-LG.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3157  
 [ECN] 3166  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 6/28/2017 2:52:58 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C3R-LL-00-3-GR-LG  
 [LUMINAIRE] Gray PVC housing with lightly frosted lens  
 [LAMP] Twenty-four (24) green LEDs  
 [ELECTRICALS] 24.08 VDC, 0.14 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	227
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	3.38
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.05 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.02 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	22	28	81
65	58	80	293
75	100	177	645
85	435	712	1550

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>40.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>50.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>60.0</b>	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.22	0.21	0.22
<b>70.0</b>	0.25	0.25	0.24	0.25	0.26	0.27	0.27	0.29	0.31	0.32
<b>80.0</b>	0.38	0.38	0.39	0.42	0.44	0.47	0.50	0.55	0.60	0.62
<b>90.0</b>	1.68	1.71	1.73	1.74	1.76	1.79	1.82	1.88	1.93	2.04
<b>92.5</b>	3.08	3.13	3.16	3.17	3.17	3.14	3.11	3.13	3.15	3.28
<b>95.0</b>	5.22	5.25	5.28	5.31	5.34	5.27	5.20	5.10	4.99	5.00
<b>97.5</b>	7.54	7.58	7.61	7.58	7.54	7.33	7.12	6.84	6.55	6.33
<b>100.0</b>	8.91	8.77	8.62	8.48	8.34	7.95	7.55	7.20	6.85	6.88
<b>102.5</b>	7.90	7.87	7.84	7.63	7.41	7.21	7.00	7.11	7.21	7.85
<b>105.0</b>	6.78	6.85	6.90	6.93	6.96	7.24	7.51	8.25	8.98	10.12
<b>107.5</b>	7.10	7.35	7.60	7.95	8.30	9.13	9.95	11.25	12.54	13.93
<b>110.0</b>	9.72	10.08	10.45	11.21	11.96	13.34	14.71	16.45	18.19	19.16
<b>112.5</b>	15.67	16.12	16.57	17.70	18.83	20.52	22.20	23.43	24.67	24.70
<b>115.0</b>	25.86	26.16	26.45	27.45	28.44	29.42	30.39	30.35	30.30	29.53
<b>117.5</b>	36.93	36.67	36.40	36.68	36.96	36.72	36.48	35.42	34.35	33.28
<b>120.0</b>	43.10	42.79	42.47	42.01	41.55	40.47	39.39	38.32	37.25	36.47
<b>122.5</b>	44.75	44.49	44.22	43.55	42.87	42.04	41.20	40.75	40.30	39.84
<b>125.0</b>	45.24	45.22	45.19	44.84	44.49	44.19	43.89	43.84	43.79	43.52
<b>127.5</b>	46.72	46.94	47.16	47.09	47.02	47.05	47.07	47.22	47.36	47.21
<b>130.0</b>	49.00	49.23	49.45	49.66	49.87	50.14	50.40	50.53	50.66	50.56
<b>132.5</b>	51.76	52.00	52.23	52.62	53.01	53.21	53.41	53.52	53.62	53.50
<b>135.0</b>	55.01	55.20	55.39	55.66	55.92	56.05	56.18	56.20	56.21	56.13
<b>137.5</b>	58.18	58.19	58.21	58.39	58.57	58.57	58.57	58.67	58.77	58.61
<b>140.0</b>	60.87	60.81	60.74	60.79	60.83	60.86	60.88	60.95	61.01	60.86
<b>142.5</b>	62.90	62.88	62.86	62.91	62.96	62.99	63.03	62.98	62.92	62.68
<b>145.0</b>	64.58	64.65	64.71	64.71	64.70	64.68	64.65	64.62	64.58	64.41
<b>147.5</b>	65.94	65.96	65.97	66.06	66.15	66.12	66.08	66.10	66.12	66.07
<b>150.0</b>	67.03	67.06	67.09	67.18	67.26	67.33	67.39	67.43	67.46	67.53
<b>152.5</b>	68.21	68.30	68.38	68.43	68.47	68.45	68.42	68.57	68.73	68.79
<b>155.0</b>	69.65	69.70	69.74	69.70	69.65	69.62	69.59	69.80	70.00	69.97
<b>157.5</b>	70.83	70.86	70.89	70.84	70.78	70.73	70.69	70.84	70.99	70.98
<b>160.0</b>	71.49	71.56	71.62	71.63	71.63	71.65	71.67	71.72	71.76	71.67
<b>162.5</b>	72.10	72.23	72.35	72.35	72.35	72.36	72.38	72.31	72.24	72.25
<b>165.0</b>	72.78	72.83	72.87	72.82	72.76	72.80	72.83	72.83	72.83	72.94
<b>167.5</b>	73.14	73.19	73.24	73.31	73.38	73.46	73.54	73.55	73.55	73.57
<b>170.0</b>	73.75	73.78	73.80	73.91	74.01	74.01	74.01	73.95	73.89	73.80
<b>172.5</b>	73.95	73.95	73.94	73.93	73.92	73.97	74.01	73.98	73.95	73.97
<b>175.0</b>	74.57	74.44	74.31	74.31	74.32	74.35	74.37	74.35	74.32	74.33
<b>177.5</b>	74.75	74.64	74.52	74.49	74.45	74.46	74.46	74.41	74.35	74.31
<b>180.0</b>	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>20.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>30.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.23	0.24	0.24	0.25	0.27	0.32	0.36	0.41	0.46
70.0	0.33	0.32	0.31	0.30	0.30	0.40	0.49	0.64	0.79
80.0	0.64	0.64	0.63	0.59	0.54	0.55	0.56	0.76	0.95
90.0	2.15	2.31	2.46	2.39	2.31	1.76	1.20	0.94	0.67
92.5	3.41	3.57	3.73	3.62	3.50	2.84	2.18	1.72	1.26
95.0	5.00	5.05	5.09	5.02	4.93	4.32	3.70	3.18	2.66
97.5	6.11	6.25	6.39	6.56	6.72	6.19	5.66	5.16	4.65
100.0	6.91	7.47	8.02	8.44	8.87	8.40	7.93	7.44	6.95
102.5	8.48	9.49	10.48	10.97	11.45	10.93	10.40	9.95	9.50
105.0	11.26	12.50	13.75	14.06	14.37	13.79	13.20	12.74	12.27
107.5	15.31	16.36	17.40	17.47	17.53	16.85	16.16	15.76	15.35
110.0	20.14	20.59	21.04	20.83	20.62	19.95	19.26	18.88	18.50
112.5	24.72	24.56	24.39	24.01	23.63	23.02	22.41	22.08	21.75
115.0	28.75	28.13	27.50	27.07	26.63	26.08	25.53	25.25	24.98
117.5	32.19	31.49	30.78	30.24	29.70	29.14	28.58	28.36	28.13
120.0	35.69	35.00	34.31	33.64	32.97	32.34	31.71	31.57	31.42
122.5	39.37	38.64	37.91	37.17	36.43	35.77	35.10	34.99	34.87
125.0	43.26	42.55	41.84	41.00	40.15	39.45	38.74	38.57	38.40
127.5	47.06	46.41	45.76	44.95	44.13	43.37	42.59	42.43	42.26
130.0	50.46	49.99	49.52	48.84	48.15	47.47	46.77	46.55	46.31
132.5	53.38	53.17	52.95	52.41	51.86	51.41	50.96	50.72	50.47
135.0	56.04	55.98	55.92	55.50	55.08	54.97	54.84	54.63	54.41
137.5	58.43	58.41	58.37	58.19	58.00	57.98	57.96	57.87	57.78
140.0	60.70	60.69	60.68	60.58	60.49	60.48	60.46	60.42	60.36
142.5	62.44	62.55	62.65	62.67	62.69	62.55	62.41	62.50	62.58
145.0	64.23	64.39	64.55	64.63	64.70	64.45	64.19	64.35	64.49
147.5	66.02	66.23	66.44	66.38	66.32	66.11	65.90	66.08	66.27
150.0	67.59	67.71	67.83	67.76	67.68	67.63	67.57	67.64	67.70
152.5	68.84	68.95	69.05	69.00	68.94	68.99	69.03	69.04	69.04
155.0	69.93	70.01	70.09	70.05	70.02	70.07	70.12	70.10	70.08
157.5	70.96	70.91	70.85	70.89	70.92	70.95	70.97	70.89	70.81
160.0	71.59	71.58	71.57	71.65	71.72	71.68	71.65	71.59	71.53
162.5	72.25	72.31	72.36	72.36	72.36	72.28	72.19	72.15	72.11
165.0	73.04	73.09	73.14	72.99	72.83	72.74	72.65	72.61	72.56
167.5	73.58	73.50	73.42	73.30	73.19	73.11	73.02	72.99	72.96
170.0	73.70	73.64	73.58	73.56	73.52	73.55	73.57	73.58	73.57
172.5	73.99	74.00	74.01	74.00	73.97	73.96	73.93	74.00	74.07
175.0	74.33	74.34	74.34	74.29	74.23	74.21	74.18	74.17	74.16
177.5	74.26	74.22	74.17	74.13	74.10	74.07	74.03	74.06	74.08
180.0	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00	74.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.11	N.A.	0.00
0-80	0.88	N.A.	0.40
0-90	2.18	N.A.	1.00
10-90	2.18	N.A.	1.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.41	N.A.	0.20
60-80	0.76	N.A.	0.30
70-80	0.47	N.A.	0.20
80-90	1.30	N.A.	0.60
90-110	16.95	N.A.	7.50
90-120	43.98	N.A.	19.30
90-130	82.28	N.A.	36.20
90-150	165.37	N.A.	72.70
90-180	225.28	N.A.	99.00
110-180	208.32	N.A.	91.60
0-180	227.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.11
60-70	0.29
70-80	0.47
80-90	1.30
90-100	5.29
100-110	11.67
110-120	27.03
120-130	38.29
130-140	42.74
140-150	40.36
150-160	32.23
160-170	20.60
170-180	7.07

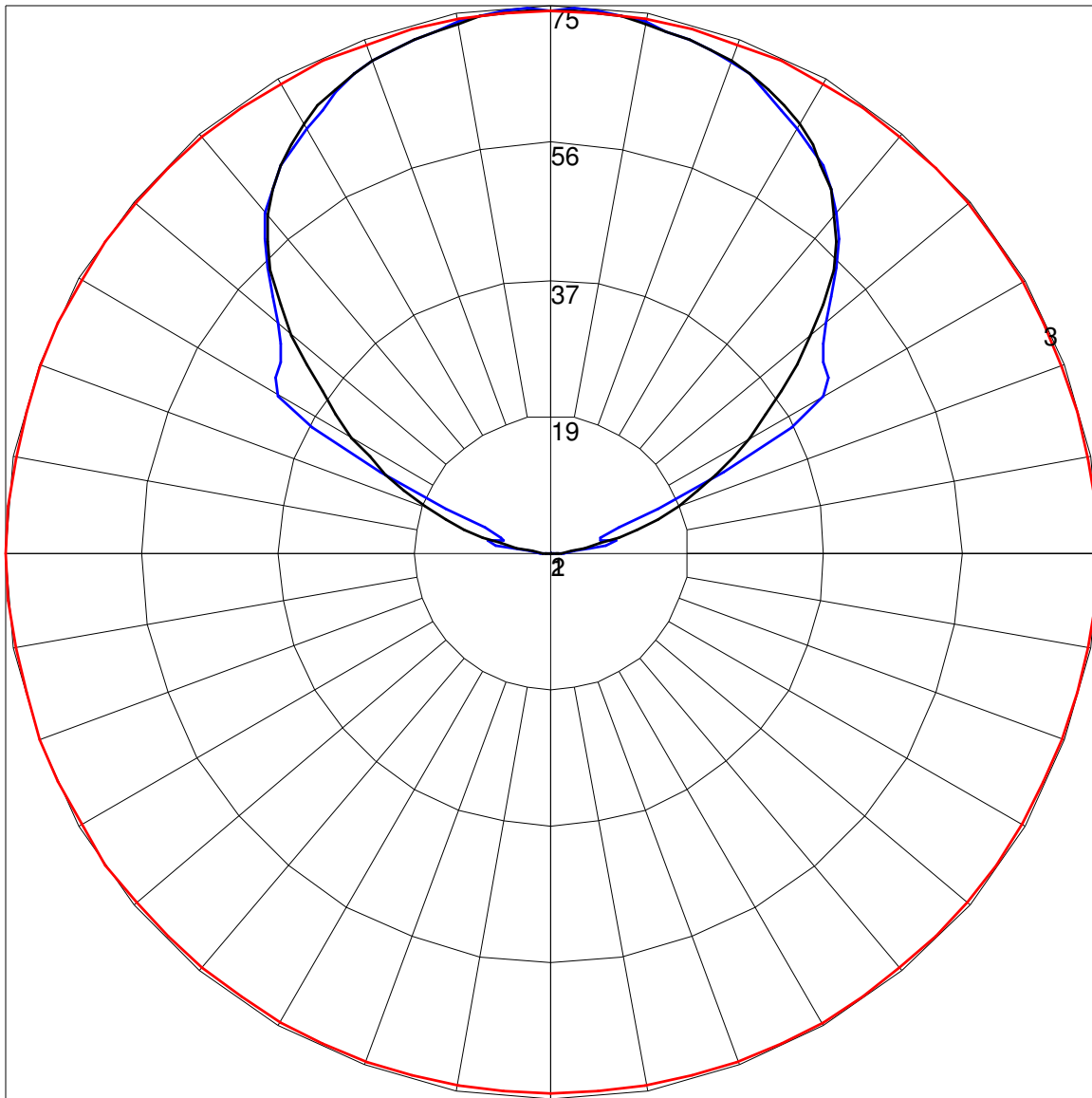
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	96	96	96	96	82	82	82	82	56	56	56	33	33	33	11	11	11	1
1	87	83	79	76	74	71	68	65	49	47	45	28	27	26	9	9	9	0
2	79	72	66	62	67	62	57	53	42	40	37	25	23	22	8	8	7	0
3	72	63	56	51	61	54	49	44	37	34	31	22	20	18	7	7	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	6	5	4	0
6	55	44	36	31	47	38	31	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	5	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

POLAR GRAPH



Maximum Candela = 74.75 Located At Horizontal Angle = 0, Vertical Angle = 177.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

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

# 3 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)