

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3R-LL-00-2-35-LG.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3357  
 [ECN] 3337  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 2/8/2018 11:05:22 AM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C3R-LL-00-2-35-LG  
 [LUMINAIRE] Gray PVC housing with lightly frosted lens  
 [LAMP] Twelve (12) white LEDs (3500K)  
 [ELECTRICALS] 12.02 VDC, 0.18 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	2.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.03 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11604	13001	19253
55	9555	10906	16966
65	6195	8266	13243
75	1517	2944	9448
85	1036	1547	4713

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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>	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65
<b>2.5</b>	79.12	78.91	78.70	78.65	78.61	78.60	78.59	78.58	78.56	78.55
<b>5.0</b>	78.87	78.66	78.46	78.40	78.34	78.35	78.37	78.36	78.35	78.32
<b>7.5</b>	78.47	78.29	78.11	78.06	78.00	77.97	77.93	77.85	77.76	77.70
<b>10.0</b>	78.04	77.89	77.73	77.67	77.60	77.49	77.38	77.23	77.08	76.96
<b>12.5</b>	77.48	77.32	77.16	77.05	76.94	76.79	76.64	76.47	76.30	76.19
<b>15.0</b>	76.77	76.60	76.42	76.30	76.18	76.00	75.82	75.67	75.52	75.44
<b>17.5</b>	75.89	75.73	75.58	75.40	75.21	75.05	74.88	74.78	74.67	74.57
<b>20.0</b>	74.78	74.62	74.45	74.26	74.07	73.96	73.84	73.75	73.65	73.49
<b>22.5</b>	73.61	73.40	73.18	72.98	72.78	72.69	72.59	72.48	72.36	72.19
<b>25.0</b>	72.35	72.10	71.85	71.63	71.41	71.33	71.24	71.08	70.91	70.75
<b>27.5</b>	70.98	70.69	70.41	70.17	69.92	69.83	69.73	69.53	69.32	69.19
<b>30.0</b>	69.30	69.02	68.74	68.49	68.24	68.08	67.91	67.77	67.63	67.54
<b>32.5</b>	67.37	67.15	66.93	66.72	66.50	66.25	66.00	65.91	65.82	65.80
<b>35.0</b>	65.39	65.23	65.06	64.84	64.62	64.33	64.02	63.98	63.92	63.94
<b>37.5</b>	63.27	63.09	62.91	62.69	62.46	62.20	61.93	61.90	61.86	61.98
<b>40.0</b>	60.95	60.70	60.44	60.26	60.07	59.90	59.73	59.73	59.72	59.91
<b>42.5</b>	58.45	58.12	57.78	57.61	57.42	57.33	57.24	57.35	57.46	57.69
<b>45.0</b>	55.64	55.29	54.93	54.78	54.62	54.59	54.56	54.78	54.99	55.30
<b>47.5</b>	52.61	52.24	51.87	51.82	51.75	51.78	51.80	52.10	52.40	52.67
<b>50.0</b>	49.50	49.13	48.75	48.70	48.65	48.77	48.89	49.28	49.68	49.82
<b>52.5</b>	46.45	46.10	45.74	45.61	45.47	45.64	45.80	46.26	46.72	46.78
<b>55.0</b>	43.98	43.55	43.11	42.77	42.42	42.52	42.62	43.01	43.40	43.36
<b>57.5</b>	42.48	42.00	41.52	40.87	40.23	40.01	39.80	39.84	39.87	39.73
<b>60.0</b>	40.59	40.17	39.74	39.25	38.76	38.30	37.83	37.32	36.80	36.33
<b>62.5</b>	35.27	35.06	34.84	34.96	35.07	35.12	35.17	34.66	34.15	33.29
<b>65.0</b>	26.46	26.53	26.60	27.27	27.94	28.85	29.75	29.95	30.14	29.57
<b>67.5</b>	17.48	17.66	17.82	18.77	19.71	21.12	22.53	23.44	24.35	24.55
<b>70.0</b>	10.57	10.73	10.89	11.64	12.38	13.75	15.11	16.51	17.91	18.88
<b>72.5</b>	7.03	7.08	7.13	7.46	7.80	8.60	9.40	10.65	11.91	13.28
<b>75.0</b>	5.78	5.76	5.74	5.80	5.86	6.14	6.41	7.12	7.83	9.04
<b>77.5</b>	5.73	5.66	5.59	5.49	5.39	5.37	5.35	5.57	5.78	6.47
<b>80.0</b>	6.19	6.10	6.01	5.86	5.70	5.51	5.31	5.19	5.06	5.28
<b>82.5</b>	5.22	5.22	5.22	5.21	5.19	5.14	5.09	4.97	4.84	4.77
<b>85.0</b>	3.35	3.35	3.34	3.38	3.41	3.51	3.60	3.67	3.74	3.82
<b>87.5</b>	1.87	1.89	1.90	1.95	2.00	2.06	2.12	2.20	2.28	2.42
<b>90.0</b>	1.12	1.15	1.17	1.20	1.22	1.25	1.27	1.31	1.34	1.44
<b>100.0</b>	0.37	0.38	0.38	0.40	0.40	0.42	0.43	0.46	0.48	0.50
<b>110.0</b>	0.27	0.27	0.27	0.28	0.28	0.30	0.30	0.30	0.28	0.28
<b>120.0</b>	0.19	0.20	0.19	0.20	0.19	0.19	0.19	0.18	0.17	0.16
<b>130.0</b>	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.14	0.13	0.14
<b>140.0</b>	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.00	0.00
<b>150.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>160.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>170.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>180.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65	78.65
<b>2.5</b>	78.53	78.55	78.55	78.53	78.50	78.50	78.49	78.51	78.52
<b>5.0</b>	78.29	78.26	78.23	78.19	78.14	78.13	78.10	78.11	78.12
<b>7.5</b>	77.63	77.60	77.57	77.52	77.46	77.42	77.38	77.38	77.39

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10.0	76.85	76.79	76.73	76.72	76.71	76.68	76.65	76.65	76.66
12.5	76.07	76.04	76.01	76.01	75.99	75.99	75.98	76.00	76.01
15.0	75.36	75.31	75.25	75.20	75.15	75.14	75.12	75.12	75.11
17.5	74.48	74.37	74.26	74.19	74.11	74.12	74.13	74.13	74.13
20.0	73.33	73.25	73.17	73.11	73.04	73.04	73.03	73.04	73.04
22.5	72.01	72.00	71.99	71.96	71.92	71.89	71.85	71.83	71.81
25.0	70.59	70.57	70.55	70.53	70.50	70.43	70.36	70.36	70.36
27.5	69.06	69.00	68.95	68.98	69.00	68.92	68.83	68.84	68.85
30.0	67.45	67.40	67.34	67.43	67.52	67.47	67.42	67.33	67.23
32.5	65.77	65.78	65.79	65.84	65.88	65.85	65.81	65.72	65.63
35.0	63.96	64.02	64.08	64.11	64.13	64.11	64.08	63.96	63.83
37.5	62.09	62.19	62.29	62.27	62.25	62.18	62.12	62.04	61.97
40.0	60.10	60.24	60.36	60.27	60.16	60.03	59.89	59.83	59.76
42.5	57.92	58.05	58.17	57.94	57.71	57.54	57.36	57.29	57.22
45.0	55.59	55.60	55.61	55.27	54.94	54.71	54.48	54.44	54.40
47.5	52.94	52.80	52.65	52.28	51.91	51.59	51.26	51.22	51.17
50.0	49.96	49.74	49.53	49.09	48.63	48.21	47.79	47.63	47.47
52.5	46.83	46.49	46.14	45.63	45.12	44.60	44.08	43.83	43.58
55.0	43.32	42.92	42.52	41.97	41.42	40.74	40.06	39.73	39.39
57.5	39.59	39.19	38.78	38.21	37.63	36.80	35.96	35.57	35.18
60.0	35.84	35.39	34.93	34.31	33.68	32.81	31.92	31.52	31.11
62.5	32.43	31.72	31.01	30.35	29.68	28.81	27.93	27.49	27.06
65.0	29.01	28.11	27.20	26.45	25.70	24.85	23.99	23.57	23.14
67.5	24.73	24.12	23.50	22.68	21.84	21.02	20.19	19.79	19.39
70.0	19.84	19.74	19.63	18.93	18.21	17.43	16.65	16.32	15.98
72.5	14.64	15.13	15.62	15.22	14.81	14.19	13.56	13.32	13.07
75.0	10.24	11.06	11.86	11.84	11.80	11.44	11.07	10.83	10.58
77.5	7.16	7.97	8.77	9.06	9.35	9.19	9.01	8.69	8.37
80.0	5.50	6.02	6.53	6.89	7.25	6.98	6.70	6.32	5.93
82.5	4.69	4.85	5.00	5.20	5.40	5.00	4.59	4.20	3.80
85.0	3.88	3.93	3.98	3.95	3.92	3.41	2.90	2.53	2.16
87.5	2.56	2.70	2.83	2.76	2.69	2.14	1.58	1.28	0.97
90.0	1.53	1.66	1.78	1.73	1.68	1.22	0.76	0.64	0.53
100.0	0.52	0.53	0.54	0.47	0.41	0.39	0.37	0.74	1.10
110.0	0.28	0.25	0.21	0.21	0.21	0.35	0.49	0.69	0.88
120.0	0.15	0.15	0.14	0.21	0.28	0.54	0.80	1.01	1.22
130.0	0.14	0.15	0.15	0.19	0.21	0.34	0.45	0.58	0.71
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.52
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.42
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.16
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	28.80	N.A.	12.80
0-30	61.53	N.A.	27.40
0-40	101.74	N.A.	45.30
0-60	181.99	N.A.	81.00
0-80	218.59	N.A.	97.30
0-90	222.48	N.A.	99.10
10-90	215.04	N.A.	95.70
20-40	72.94	N.A.	32.50
20-50	115.26	N.A.	51.30
40-70	106.71	N.A.	47.50
60-80	36.60	N.A.	16.30
70-80	10.14	N.A.	4.50
80-90	3.88	N.A.	1.70
90-110	1.38	N.A.	0.60
90-120	1.70	N.A.	0.80
90-130	1.94	N.A.	0.90
90-150	2.10	N.A.	0.90
90-180	2.11	N.A.	0.90
110-180	0.73	N.A.	0.30
0-180	224.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	7.43
10-20	21.36
20-30	32.73
30-40	40.21
40-50	42.32
50-60	37.93
60-70	26.46
70-80	10.14
80-90	3.88
90-100	0.96
100-110	0.42
110-120	0.32
120-130	0.24
130-140	0.12
140-150	0.04
150-160	0.01
160-170	0.00
170-180	0.00

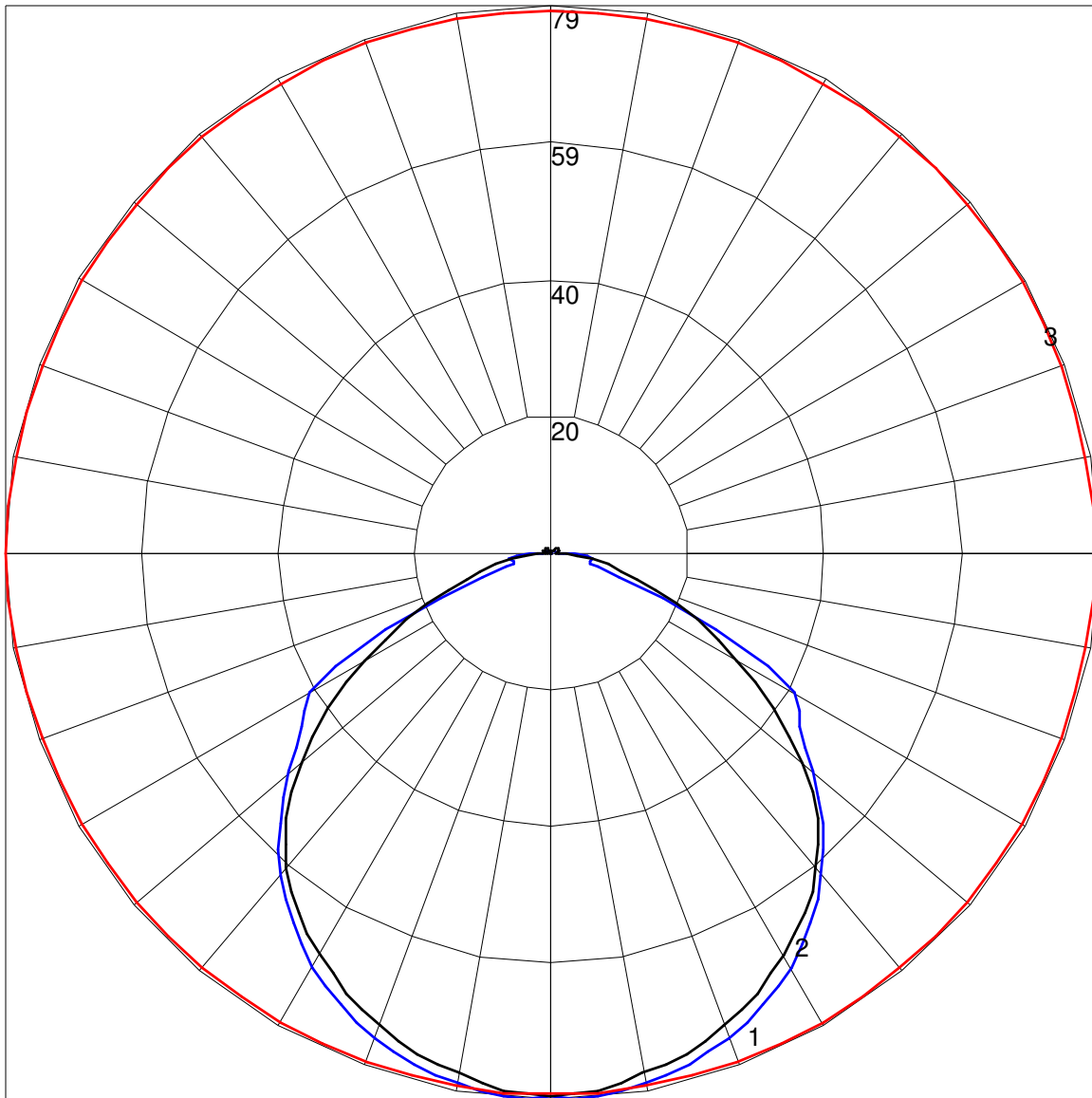
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	109	104	100	96	96	106	102	98	95	97	94	92	93	91	89	90	88	86	84	84
2	99	91	85	79	79	96	89	83	78	86	80	76	82	78	74	79	76	72	70	70
3	91	80	72	66	66	88	79	71	65	75	69	64	73	67	63	70	65	62	59	59
4	83	71	62	56	56	81	70	62	55	67	60	55	65	59	54	62	57	53	51	51
5	76	63	55	48	48	74	62	54	48	60	53	47	58	52	47	56	50	46	44	44
6	70	57	48	42	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38	38
7	65	52	43	37	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34	34
8	61	47	39	33	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30	30
9	57	43	35	30	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27	27
10	53	40	32	27	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24	24

POLAR GRAPH



Maximum Candela = 79.12 Located At Horizontal Angle = 0, Vertical Angle = 2.5

# 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 (2.5) (Through Max. Cd.)