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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C3R-CL-00-3-35-LG.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3360  
 [ECN] 3337  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 2/9/2018 2:51:17 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C3R-CL-00-3-35-LG  
 [LUMINAIRE] Gray PVC housing with lightly frosted lens  
 [LAMP] Twenty-Four (24) white LEDs (3500K)  
 [ELECTRICALS] 24.02 VDC, 0.12 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	2.99
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
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	16347	18575	26954
55	13357	15071	22815
65	9484	10960	19098
75	2000	4550	14002
85	1581	2206	6785

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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>	111.91	111.91	111.91	111.91	111.91	111.91	111.91	111.91	111.91	111.91
<b>2.5</b>	112.27	112.11	111.95	111.90	111.85	111.83	111.81	111.78	111.74	111.73
<b>5.0</b>	111.98	111.82	111.66	111.61	111.56	111.51	111.46	111.45	111.43	111.42
<b>7.5</b>	111.41	111.29	111.17	111.09	111.02	110.99	110.96	110.97	110.96	110.98
<b>10.0</b>	110.71	110.61	110.52	110.47	110.42	110.39	110.36	110.37	110.37	110.38
<b>12.5</b>	109.91	109.81	109.71	109.67	109.63	109.59	109.54	109.54	109.54	109.54
<b>15.0</b>	108.87	108.76	108.65	108.63	108.61	108.59	108.56	108.54	108.50	108.49
<b>17.5</b>	107.53	107.45	107.37	107.35	107.32	107.33	107.34	107.32	107.28	107.22
<b>20.0</b>	105.95	105.89	105.82	105.83	105.84	105.86	105.87	105.84	105.81	105.75
<b>22.5</b>	104.30	104.24	104.17	104.18	104.17	104.15	104.11	104.09	104.06	103.99
<b>25.0</b>	102.38	102.36	102.34	102.35	102.36	102.30	102.22	102.16	102.10	102.07
<b>27.5</b>	100.34	100.33	100.31	100.32	100.33	100.23	100.13	100.10	100.07	100.05
<b>30.0</b>	98.10	98.05	98.00	98.02	98.04	97.95	97.86	97.83	97.80	97.79
<b>32.5</b>	95.57	95.48	95.39	95.41	95.43	95.40	95.37	95.32	95.27	95.26
<b>35.0</b>	92.83	92.69	92.56	92.57	92.59	92.58	92.56	92.57	92.57	92.54
<b>37.5</b>	89.77	89.64	89.50	89.55	89.59	89.59	89.59	89.62	89.65	89.58
<b>40.0</b>	86.33	86.21	86.08	86.19	86.29	86.30	86.31	86.36	86.41	86.34
<b>42.5</b>	82.53	82.48	82.42	82.54	82.66	82.70	82.73	82.77	82.82	82.76
<b>45.0</b>	78.38	78.40	78.42	78.53	78.64	78.78	78.90	78.97	79.03	79.01
<b>47.5</b>	74.08	74.11	74.13	74.27	74.40	74.59	74.77	74.88	74.98	74.84
<b>50.0</b>	69.67	69.65	69.64	69.78	69.92	70.08	70.24	70.38	70.50	70.21
<b>52.5</b>	65.47	65.33	65.19	65.25	65.31	65.49	65.67	65.65	65.64	65.21
<b>55.0</b>	61.48	61.34	61.20	61.13	61.06	61.00	60.93	60.70	60.46	59.92
<b>57.5</b>	58.63	58.36	58.10	57.81	57.52	56.96	56.39	55.81	55.22	54.54
<b>60.0</b>	56.43	56.21	55.98	55.34	54.71	53.58	52.45	51.29	50.12	49.25
<b>62.5</b>	51.20	51.03	50.85	50.59	50.32	49.37	48.41	46.91	45.41	44.25
<b>65.0</b>	40.51	40.72	40.93	41.34	41.75	41.80	41.84	41.02	40.19	39.21
<b>67.5</b>	27.76	28.19	28.63	29.69	30.74	31.78	32.81	33.08	33.35	33.14
<b>70.0</b>	16.95	17.33	17.70	18.82	19.92	21.50	23.07	24.39	25.69	26.36
<b>72.5</b>	10.56	10.80	11.05	11.80	12.55	13.81	15.06	16.63	18.19	19.51
<b>75.0</b>	7.62	7.76	7.90	8.26	8.61	9.37	10.13	11.38	12.62	13.97
<b>77.5</b>	7.04	7.06	7.08	7.12	7.15	7.41	7.67	8.37	9.06	10.11
<b>80.0</b>	7.48	7.43	7.39	7.27	7.16	7.03	6.90	7.06	7.23	7.81
<b>82.5</b>	7.09	7.10	7.11	7.06	7.00	6.88	6.75	6.64	6.53	6.64
<b>85.0</b>	5.11	5.17	5.22	5.27	5.33	5.33	5.33	5.34	5.36	5.45
<b>87.5</b>	3.02	3.05	3.08	3.13	3.17	3.24	3.30	3.40	3.50	3.69
<b>90.0</b>	1.78	1.80	1.83	1.86	1.89	1.95	2.01	2.11	2.21	2.38
<b>100.0</b>	0.53	0.55	0.57	0.60	0.62	0.66	0.70	0.75	0.80	0.86
<b>110.0</b>	0.38	0.39	0.40	0.42	0.43	0.44	0.45	0.46	0.46	0.46
<b>120.0</b>	0.25	0.26	0.26	0.26	0.26	0.27	0.26	0.27	0.27	0.25
<b>130.0</b>	0.18	0.18	0.17	0.18	0.17	0.18	0.18	0.19	0.18	0.20
<b>140.0</b>	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.18	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. 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>	111.91	111.91	111.91	111.91	111.91	111.91	111.91	111.91	111.91
<b>2.5</b>	111.72	111.70	111.68	111.66	111.62	111.60	111.57	111.62	111.66
<b>5.0</b>	111.41	111.40	111.38	111.36	111.33	111.31	111.30	111.32	111.35
<b>7.5</b>	110.98	110.98	110.97	110.96	110.94	110.94	110.93	110.96	110.97

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**CANDELA TABULATION - (Cont.)**

10.0	110.38	110.35	110.32	110.31	110.29	110.27	110.25	110.29	110.33
12.5	109.53	109.51	109.48	109.43	109.38	109.36	109.34	109.39	109.43
15.0	108.47	108.41	108.35	108.27	108.18	108.18	108.18	108.22	108.26
17.5	107.16	107.12	107.08	107.00	106.91	106.89	106.87	106.91	106.95
20.0	105.69	105.66	105.64	105.57	105.49	105.46	105.43	105.48	105.52
22.5	103.93	103.94	103.94	103.90	103.86	103.77	103.68	103.75	103.82
25.0	102.05	102.06	102.05	101.99	101.92	101.86	101.80	101.85	101.91
27.5	100.02	100.03	100.04	99.97	99.88	99.82	99.76	99.81	99.86
30.0	97.78	97.78	97.76	97.71	97.66	97.62	97.59	97.63	97.68
32.5	95.26	95.28	95.31	95.25	95.19	95.22	95.25	95.26	95.28
35.0	92.50	92.53	92.55	92.50	92.44	92.48	92.51	92.52	92.52
37.5	89.50	89.52	89.53	89.51	89.47	89.36	89.25	89.19	89.13
40.0	86.27	86.27	86.27	86.11	85.94	85.69	85.43	85.37	85.29
42.5	82.70	82.66	82.62	82.24	81.85	81.52	81.17	81.07	80.97
45.0	78.99	78.74	78.48	77.94	77.39	76.95	76.50	76.34	76.16
47.5	74.69	74.31	73.92	73.17	72.42	71.87	71.32	71.11	70.90
50.0	69.92	69.34	68.76	67.88	66.99	66.29	65.59	65.33	65.08
52.5	64.79	64.06	63.34	62.30	61.26	60.41	59.56	59.24	58.91
55.0	59.37	58.53	57.68	56.55	55.42	54.58	53.73	53.35	52.97
57.5	53.86	52.89	51.93	50.87	49.81	49.03	48.26	47.93	47.60
60.0	48.38	47.37	46.36	45.51	44.65	43.97	43.28	42.92	42.55
62.5	43.09	42.16	41.23	40.58	39.94	39.31	38.67	38.25	37.83
65.0	38.22	37.37	36.53	36.06	35.59	34.91	34.22	33.80	33.37
67.5	32.92	32.52	32.11	31.76	31.41	30.61	29.80	29.32	28.84
70.0	27.03	27.27	27.51	27.30	27.08	26.18	25.27	24.74	24.21
72.5	20.82	21.70	22.57	22.63	22.68	21.85	21.01	20.40	19.79
75.0	15.31	16.53	17.75	18.10	18.44	17.69	16.93	16.31	15.68
77.5	11.15	12.31	13.46	13.96	14.46	13.81	13.17	12.56	11.95
80.0	8.39	9.22	10.05	10.52	10.99	10.40	9.80	9.21	8.62
82.5	6.76	7.19	7.62	7.84	8.06	7.44	6.82	6.21	5.60
85.0	5.54	5.69	5.82	5.80	5.78	5.02	4.27	3.69	3.11
87.5	3.88	4.06	4.24	4.13	4.00	3.17	2.33	1.85	1.37
90.0	2.54	2.71	2.88	2.73	2.58	1.88	1.17	1.01	0.85
100.0	0.90	0.93	0.94	0.82	0.68	0.62	0.56	0.90	1.23
110.0	0.45	0.41	0.36	0.34	0.30	0.44	0.50	0.79	1.00
120.0	0.24	0.24	0.24	0.28	0.29	0.39	0.45	0.50	0.55
130.0	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	41.24	N.A.	12.90
0-30	88.34	N.A.	27.60
0-40	146.20	N.A.	45.70
0-60	258.92	N.A.	81.00
0-80	311.32	N.A.	97.40
0-90	316.97	N.A.	99.10
10-90	306.36	N.A.	95.80
20-40	104.96	N.A.	32.80
20-50	165.11	N.A.	51.60
40-70	150.01	N.A.	46.90
60-80	52.40	N.A.	16.40
70-80	15.11	N.A.	4.70
80-90	5.65	N.A.	1.80
90-110	2.15	N.A.	0.70
90-120	2.53	N.A.	0.80
90-130	2.71	N.A.	0.80
90-150	2.80	N.A.	0.90
90-180	2.80	N.A.	0.90
110-180	0.65	N.A.	0.20
0-180	319.76	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	10.61
10-20	30.63
20-30	47.10
30-40	57.86
40-50	60.15
50-60	52.58
60-70	37.29
70-80	15.11
80-90	5.65
90-100	1.52
100-110	0.63
110-120	0.37
120-130	0.18
130-140	0.07
140-150	0.02
150-160	0.00
160-170	0.00
170-180	0.00

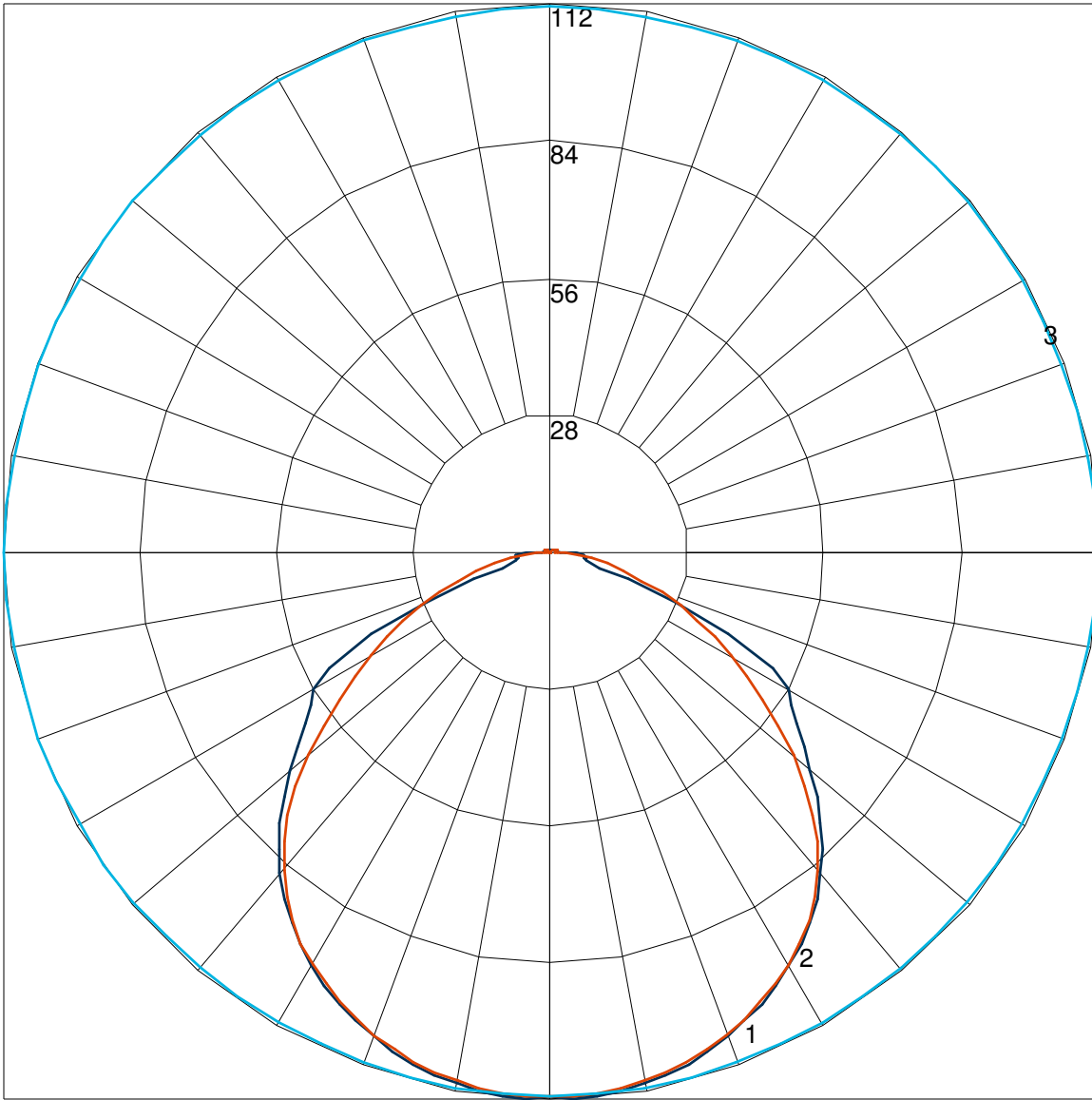
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	116	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96		106	102	98	95		98	94	92	94	91	89	90	88	86	84
2	99	91	85	79		97	89	83	78		86	81	76	82	78	74	79	76	73	70
3	91	80	72	66		88	79	71	65		76	69	64	73	67	63	70	66	62	59
4	83	71	63	56		81	70	62	56		67	60	55	65	59	54	63	57	53	51
5	76	64	55	48		74	62	54	48		60	53	47	58	52	47	56	51	46	44
6	70	57	48	42		68	56	48	42		54	47	41	53	46	41	51	45	41	38
7	65	52	43	37		64	51	43	37		49	42	37	48	41	36	46	41	36	34
8	61	47	39	33		59	47	39	33		45	38	33	44	37	32	43	37	32	30
9	57	43	35	30		55	43	35	30		42	34	29	40	34	29	39	33	29	27
10	53	40	32	27		52	39	32	27		38	31	27	37	31	26	36	31	26	25

POLAR GRAPH



Maximum Candela = 112.27 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.)