

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C4R-LL-00-5-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3259  
 [ECN] 3201  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 10/9/2017 2:59:48 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4R-LL-00-5-35-NA  
 [LUMINAIRE] Natural anodized aluminum housing with lightly frosted lens  
 [LAMP] Seven (7) white LEDs (3500K)  
 [ELECTRICALS] 24.00 VDC, 0.10 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	287
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	2.31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	0.43 ft
Luminous Height	0.03 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25790	27110	34900
55	21869	23209	32025
65	16326	18176	26787
75	10069	11324	20039
85	3180	4735	10119

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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>	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00
<b>2.5</b>	99.28	99.27	99.26	99.24	99.21	99.18	99.13	99.11	99.09	99.05
<b>5.0</b>	99.19	99.17	99.14	99.11	99.07	99.02	98.97	98.96	98.93	98.89
<b>7.5</b>	98.74	98.73	98.72	98.69	98.66	98.61	98.56	98.53	98.49	98.44
<b>10.0</b>	98.02	98.00	97.98	97.95	97.92	97.85	97.77	97.76	97.75	97.71
<b>12.5</b>	97.16	97.13	97.09	97.06	97.02	96.98	96.93	96.91	96.88	96.83
<b>15.0</b>	95.99	95.96	95.92	95.95	95.97	95.94	95.91	95.88	95.85	95.81
<b>17.5</b>	94.43	94.44	94.44	94.51	94.57	94.58	94.58	94.59	94.60	94.59
<b>20.0</b>	92.57	92.63	92.69	92.80	92.90	92.96	93.03	93.06	93.09	93.10
<b>22.5</b>	90.55	90.63	90.69	90.85	91.01	91.13	91.25	91.35	91.44	91.44
<b>25.0</b>	88.43	88.55	88.66	88.82	88.96	89.07	89.17	89.30	89.42	89.47
<b>27.5</b>	86.30	86.40	86.49	86.54	86.59	86.68	86.77	86.92	87.06	87.20
<b>30.0</b>	84.33	84.34	84.34	84.33	84.32	84.28	84.23	84.30	84.36	84.57
<b>32.5</b>	82.31	82.27	82.22	82.15	82.08	81.95	81.81	81.73	81.65	81.81
<b>35.0</b>	79.97	79.90	79.83	79.83	79.83	79.65	79.47	79.24	79.00	79.04
<b>37.5</b>	77.28	77.24	77.19	77.23	77.27	77.11	76.94	76.65	76.36	76.21
<b>40.0</b>	74.23	74.26	74.29	74.34	74.38	74.24	74.10	73.82	73.53	73.26
<b>42.5</b>	71.11	71.13	71.15	71.19	71.23	71.10	70.96	70.72	70.49	70.20
<b>45.0</b>	67.90	67.86	67.82	67.80	67.77	67.62	67.48	67.32	67.15	66.87
<b>47.5</b>	64.59	64.48	64.36	64.25	64.14	64.00	63.85	63.73	63.60	63.34
<b>50.0</b>	61.17	61.02	60.86	60.68	60.49	60.38	60.26	60.11	59.97	59.69
<b>52.5</b>	57.46	57.36	57.25	57.12	56.98	56.94	56.89	56.62	56.34	55.93
<b>55.0</b>	53.37	53.34	53.30	53.33	53.34	53.38	53.42	53.08	52.73	52.17
<b>57.5</b>	48.87	48.93	49.00	49.18	49.35	49.46	49.57	49.30	49.03	48.44
<b>60.0</b>	44.34	44.43	44.51	44.73	44.94	45.05	45.15	45.09	45.03	44.52
<b>62.5</b>	39.89	39.91	39.92	40.11	40.30	40.38	40.46	40.49	40.52	40.23
<b>65.0</b>	35.49	35.46	35.42	35.54	35.65	35.66	35.66	35.72	35.77	35.64
<b>67.5</b>	31.05	31.06	31.07	31.15	31.21	31.20	31.18	31.16	31.13	31.03
<b>70.0</b>	26.92	26.92	26.92	26.97	27.03	27.03	27.03	26.88	26.72	26.59
<b>72.5</b>	22.68	22.71	22.73	22.80	22.88	22.87	22.86	22.69	22.52	22.31
<b>75.0</b>	18.54	18.56	18.57	18.61	18.65	18.69	18.74	18.63	18.51	18.28
<b>77.5</b>	14.42	14.46	14.50	14.57	14.64	14.72	14.79	14.76	14.73	14.58
<b>80.0</b>	10.59	10.67	10.74	10.85	10.96	11.10	11.25	11.30	11.35	11.26
<b>82.5</b>	7.16	7.25	7.33	7.47	7.61	7.81	8.01	8.11	8.21	8.21
<b>85.0</b>	4.62	4.69	4.75	4.91	5.06	5.27	5.47	5.60	5.71	5.77
<b>87.5</b>	2.89	2.94	2.99	3.12	3.25	3.44	3.63	3.75	3.87	3.96
<b>90.0</b>	1.83	1.87	1.90	1.99	2.08	2.23	2.38	2.50	2.62	2.69
<b>100.0</b>	0.53	0.54	0.54	0.57	0.59	0.63	0.67	0.70	0.72	0.71
<b>110.0</b>	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.20	0.18	0.13
<b>120.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>140.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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>	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00	99.00
<b>2.5</b>	99.01	99.02	99.02	98.98	98.93	98.96	98.98	98.97	98.96
<b>5.0</b>	98.84	98.81	98.77	98.71	98.65	98.67	98.69	98.67	98.65
<b>7.5</b>	98.39	98.34	98.29	98.23	98.17	98.16	98.15	98.15	98.15

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**CANDELA TABULATION - (Cont.)**

10.0	97.67	97.67	97.66	97.59	97.51	97.52	97.52	97.48	97.44
12.5	96.78	96.79	96.80	96.74	96.67	96.67	96.67	96.61	96.56
15.0	95.78	95.79	95.80	95.75	95.69	95.64	95.57	95.52	95.47
17.5	94.57	94.55	94.53	94.46	94.39	94.32	94.25	94.18	94.10
20.0	93.10	93.06	93.02	92.93	92.84	92.77	92.70	92.65	92.58
22.5	91.42	91.37	91.31	91.21	91.11	91.03	90.96	90.85	90.73
25.0	89.51	89.50	89.48	89.32	89.16	89.07	88.98	88.86	88.73
27.5	87.33	87.35	87.37	87.23	87.09	86.95	86.79	86.65	86.51
30.0	84.76	84.87	84.97	84.90	84.83	84.66	84.49	84.32	84.14
32.5	81.97	82.17	82.36	82.33	82.29	82.14	81.99	81.82	81.65
35.0	79.07	79.30	79.53	79.53	79.52	79.44	79.36	79.23	79.09
37.5	76.05	76.27	76.48	76.54	76.59	76.49	76.38	76.26	76.13
40.0	72.98	73.10	73.22	73.31	73.41	73.31	73.20	73.11	73.01
42.5	69.91	69.81	69.71	69.86	70.01	69.92	69.83	69.66	69.49
45.0	66.58	66.35	66.11	66.27	66.41	66.33	66.25	65.99	65.74
47.5	63.08	62.73	62.38	62.49	62.60	62.55	62.50	62.24	61.98
50.0	59.41	59.03	58.64	58.63	58.62	58.63	58.63	58.42	58.20
52.5	55.52	55.19	54.85	54.72	54.58	54.71	54.84	54.62	54.41
55.0	51.60	51.27	50.93	50.74	50.54	50.65	50.76	50.56	50.36
57.5	47.83	47.39	46.94	46.66	46.38	46.38	46.37	46.19	46.00
60.0	44.01	43.43	42.85	42.47	42.09	41.96	41.82	41.65	41.48
62.5	39.94	39.31	38.67	38.15	37.63	37.45	37.27	37.13	36.99
65.0	35.50	35.00	34.50	33.87	33.22	32.95	32.68	32.60	32.51
67.5	30.93	30.64	30.35	29.65	28.94	28.64	28.34	28.29	28.24
70.0	26.46	26.28	26.09	25.46	24.82	24.48	24.13	24.11	24.10
72.5	22.11	21.95	21.79	21.32	20.83	20.48	20.12	20.13	20.14
75.0	18.04	17.89	17.73	17.38	17.04	16.70	16.36	16.38	16.39
77.5	14.43	14.23	14.02	13.80	13.57	13.26	12.95	12.87	12.79
80.0	11.18	11.02	10.85	10.70	10.53	10.23	9.93	9.73	9.52
82.5	8.20	8.12	8.04	7.91	7.79	7.48	7.17	6.83	6.49
85.0	5.82	5.80	5.78	5.69	5.60	5.26	4.92	4.47	4.02
87.5	4.04	4.05	4.06	3.99	3.90	3.56	3.20	2.72	2.24
90.0	2.76	2.79	2.82	2.75	2.68	2.36	2.04	1.73	1.43
100.0	0.69	0.61	0.52	0.36	0.20	0.16	0.11	0.22	0.34
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	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	36.43	N.A.	12.70
0-30	77.49	N.A.	27.00
0-40	127.18	N.A.	44.30
0-60	225.21	N.A.	78.50
0-80	278.71	N.A.	97.10
0-90	284.97	N.A.	99.30
10-90	275.57	N.A.	96.10
20-40	90.74	N.A.	31.60
20-50	142.34	N.A.	49.60
40-70	132.45	N.A.	46.20
60-80	53.50	N.A.	18.60
70-80	19.08	N.A.	6.70
80-90	6.26	N.A.	2.20
90-110	1.86	N.A.	0.60
90-120	1.92	N.A.	0.70
90-130	1.92	N.A.	0.70
90-150	1.92	N.A.	0.70
90-180	1.92	N.A.	0.70
110-180	0.06	N.A.	0.00
0-180	286.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	9.40
10-20	27.03
20-30	41.05
30-40	49.69
40-50	51.60
50-60	46.43
60-70	34.42
70-80	19.08
80-90	6.26
90-100	1.54
100-110	0.32
110-120	0.06
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

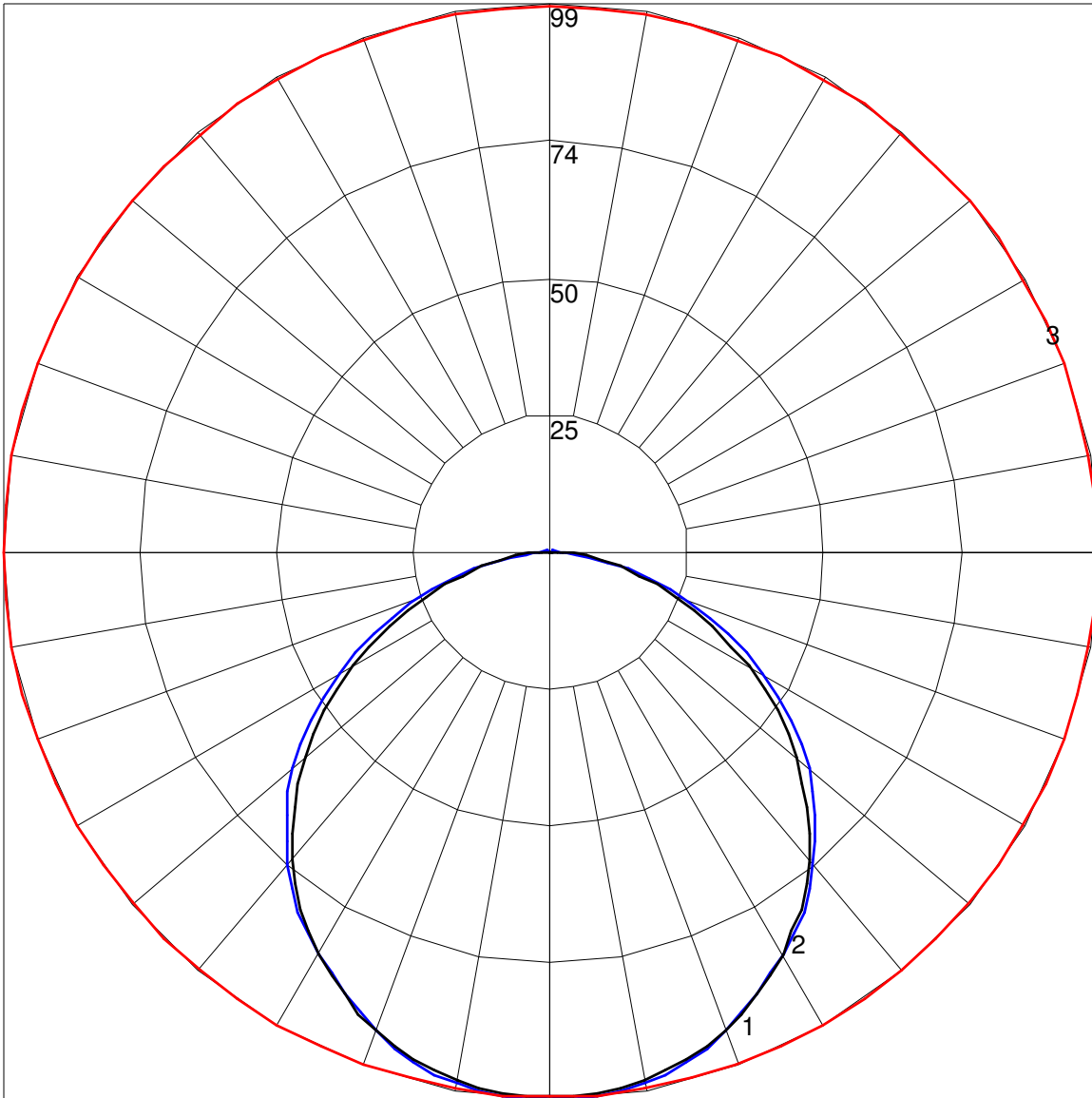
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 99.28 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.)