

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C4R-DL-00-7-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3258  
 [ECN] 3201  
 [TESTLAB] Tempo LLC  
 [ISSUE DATE] 10/9/2017 12:42:54 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C4R-DL-00-7-35-NA  
 [LUMINAIRE] Natural anodized aluminum housing with lightly frosted lens  
 [LAMP] Seven (7) white LEDs (3500K)  
 [ELECTRICALS] 23.89 VDC, 0.14 A, 1.00 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	406
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	3.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.26
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	0.04 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31718	33113	46998
55	26815	28070	43886
65	21346	21988	39510
75	14060	14647	34175
85	6504	7400	15428

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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>	132.00	132.00	132.00	132.00	132.00	132.00	132.00	132.00	132.00	132.00
<b>2.5</b>	132.62	132.49	132.36	132.34	132.32	132.23	132.13	132.13	132.12	132.08
<b>5.0</b>	132.33	132.19	132.05	132.06	132.06	132.05	132.04	132.06	132.07	131.99
<b>7.5</b>	131.63	131.47	131.30	131.39	131.48	131.53	131.57	131.65	131.73	131.75
<b>10.0</b>	130.45	130.36	130.27	130.36	130.44	130.48	130.50	130.66	130.81	130.92
<b>12.5</b>	129.28	129.21	129.13	129.18	129.22	129.30	129.38	129.60	129.81	130.00
<b>15.0</b>	127.87	127.74	127.60	127.66	127.71	127.84	127.97	128.19	128.40	128.71
<b>17.5</b>	126.21	126.17	126.13	126.19	126.25	126.28	126.31	126.55	126.77	127.11
<b>20.0</b>	124.36	124.39	124.43	124.43	124.42	124.35	124.28	124.55	124.82	125.03
<b>22.5</b>	122.68	122.79	122.90	122.77	122.65	122.56	122.47	122.64	122.81	122.76
<b>25.0</b>	120.87	120.86	120.85	120.77	120.69	120.71	120.72	120.68	120.63	120.31
<b>27.5</b>	118.33	118.31	118.28	118.25	118.22	118.32	118.41	118.28	118.15	117.59
<b>30.0</b>	115.21	115.17	115.14	115.12	115.10	115.35	115.61	115.37	115.13	114.46
<b>32.5</b>	111.51	111.57	111.62	111.68	111.73	112.02	112.30	112.00	111.70	110.99
<b>35.0</b>	107.82	107.91	108.00	108.09	108.17	108.30	108.42	108.11	107.80	107.04
<b>37.5</b>	104.68	104.58	104.49	104.56	104.62	104.51	104.38	103.94	103.49	102.77
<b>40.0</b>	101.39	101.11	100.83	101.04	101.25	100.76	100.28	99.56	98.85	98.37
<b>42.5</b>	97.41	97.23	97.05	97.35	97.65	97.07	96.49	95.41	94.31	93.88
<b>45.0</b>	92.79	92.72	92.65	93.05	93.43	93.09	92.75	91.43	90.10	89.53
<b>47.5</b>	87.74	87.76	87.78	88.21	88.63	88.48	88.32	87.13	85.92	85.34
<b>50.0</b>	82.86	82.88	82.91	83.31	83.70	83.64	83.58	82.37	81.16	80.77
<b>52.5</b>	78.69	78.58	78.47	78.76	79.05	78.78	78.50	77.33	76.16	75.91
<b>55.0</b>	74.53	74.24	73.94	74.07	74.20	73.83	73.46	72.21	70.96	70.81
<b>57.5</b>	69.96	69.63	69.30	69.23	69.15	68.63	68.11	66.66	65.22	65.25
<b>60.0</b>	65.21	64.94	64.67	64.36	64.03	63.42	62.81	61.28	59.75	59.70
<b>62.5</b>	59.94	59.82	59.69	59.49	59.29	58.45	57.61	56.30	54.99	54.58
<b>65.0</b>	54.41	54.26	54.10	54.07	54.04	53.27	52.51	51.48	50.44	49.80
<b>67.5</b>	48.78	48.41	48.03	48.09	48.14	47.65	47.15	46.25	45.34	44.73
<b>70.0</b>	42.46	42.26	42.06	42.07	42.08	41.61	41.15	40.44	39.73	39.41
<b>72.5</b>	37.04	36.68	36.32	36.14	35.97	35.44	34.90	34.46	34.02	33.92
<b>75.0</b>	31.51	31.37	31.22	30.97	30.73	30.02	29.30	28.90	28.49	28.39
<b>77.5</b>	26.22	26.24	26.25	26.09	25.92	25.26	24.59	24.21	23.82	23.58
<b>80.0</b>	21.76	21.67	21.57	21.39	21.20	20.66	20.12	19.80	19.49	19.24
<b>82.5</b>	16.88	16.81	16.73	16.64	16.54	16.17	15.79	15.54	15.28	15.05
<b>85.0</b>	12.13	12.12	12.10	12.10	12.08	11.95	11.81	11.71	11.60	11.49
<b>87.5</b>	8.66	8.63	8.59	8.55	8.50	8.53	8.54	8.57	8.59	8.58
<b>90.0</b>	6.58	6.57	6.56	6.50	6.43	6.46	6.49	6.53	6.55	6.57
<b>100.0</b>	4.05	4.02	3.98	3.90	3.81	3.78	3.73	3.64	3.53	3.40
<b>110.0</b>	2.24	2.20	2.15	2.00	1.85	1.70	1.55	1.39	1.22	1.06
<b>120.0</b>	0.47	0.47	0.47	0.44	0.42	0.38	0.34	0.29	0.24	0.19
<b>130.0</b>	0.11	0.11	0.10	0.10	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. 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>	132.00	132.00	132.00	132.00	132.00	132.00	132.00	132.00	132.00
<b>2.5</b>	132.03	132.01	131.99	131.89	131.78	131.78	131.78	131.79	131.80
<b>5.0</b>	131.89	131.80	131.69	131.57	131.45	131.41	131.36	131.35	131.33
<b>7.5</b>	131.76	131.72	131.67	131.54	131.40	131.34	131.27	131.25	131.22

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**CANDELA TABULATION - (Cont.)**

10.0	131.03	131.08	131.13	131.03	130.93	130.83	130.72	130.66	130.59
12.5	130.19	130.26	130.32	130.18	130.03	129.82	129.61	129.51	129.41
15.0	129.01	129.19	129.35	129.15	128.94	128.63	128.31	128.13	127.94
17.5	127.44	127.62	127.79	127.62	127.44	127.13	126.81	126.63	126.45
20.0	125.25	125.41	125.56	125.40	125.25	125.01	124.76	124.55	124.33
22.5	122.70	122.77	122.83	122.64	122.46	122.35	122.25	121.91	121.57
25.0	119.99	119.75	119.52	119.35	119.17	119.10	119.02	118.66	118.31
27.5	117.02	116.42	115.81	115.71	115.61	115.47	115.33	114.89	114.43
30.0	113.79	113.02	112.24	112.16	112.08	112.04	112.00	111.58	111.15
32.5	110.27	109.48	108.69	108.70	108.70	108.86	109.01	108.79	108.57
35.0	106.27	105.66	105.05	105.22	105.38	105.67	105.95	105.81	105.66
37.5	102.04	101.85	101.65	101.83	102.00	102.35	102.70	102.40	102.09
40.0	97.89	98.06	98.22	98.30	98.36	98.72	99.08	98.78	98.48
42.5	93.45	93.95	94.44	94.50	94.56	94.82	95.09	94.83	94.56
45.0	88.95	89.57	90.19	90.43	90.67	90.74	90.80	90.67	90.54
47.5	84.75	85.22	85.69	85.86	86.02	86.19	86.35	86.36	86.37
50.0	80.38	80.67	80.95	81.10	81.24	81.33	81.42	81.53	81.63
52.5	75.65	75.80	75.94	76.09	76.23	76.27	76.31	76.38	76.45
55.0	70.65	70.63	70.61	70.76	70.92	70.89	70.87	71.03	71.19
57.5	65.28	65.27	65.25	65.28	65.31	65.28	65.25	65.42	65.58
60.0	59.65	59.61	59.56	59.46	59.34	59.39	59.43	59.66	59.88
62.5	54.17	53.93	53.69	53.47	53.25	53.45	53.66	54.10	54.54
65.0	49.16	48.54	47.93	47.51	47.09	47.66	48.23	49.18	50.12
67.5	44.11	43.24	42.36	41.78	41.19	42.31	43.41	44.76	46.10
70.0	39.09	38.06	37.04	36.33	35.61	37.03	38.45	39.63	40.81
72.5	33.82	32.82	31.82	31.04	30.25	31.60	32.94	34.20	35.46
75.0	28.29	27.52	26.74	26.00	25.25	26.26	27.26	28.61	29.95
77.5	23.34	22.58	21.82	21.18	20.53	21.08	21.63	22.81	23.98
80.0	18.99	18.20	17.41	16.80	16.18	16.26	16.33	17.16	17.99
82.5	14.82	14.17	13.51	12.86	12.19	11.88	11.56	11.79	12.01
85.0	11.37	10.91	10.45	9.84	9.24	8.62	8.01	7.53	7.06
87.5	8.56	8.30	8.03	7.58	7.12	6.42	5.72	4.82	3.91
90.0	6.59	6.44	6.29	5.96	5.63	5.00	4.37	3.57	2.77
100.0	3.27	2.96	2.65	2.12	1.58	1.30	1.01	1.49	1.97
110.0	0.90	0.69	0.48	0.29	0.00	0.00	0.00	0.00	0.00
120.0	0.14	0.10	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	48.79	N.A.	12.00
0-30	104.06	N.A.	25.60
0-40	170.97	N.A.	42.10
0-60	305.59	N.A.	75.20
0-80	386.18	N.A.	95.10
0-90	398.57	N.A.	98.10
10-90	386.02	N.A.	95.00
20-40	122.17	N.A.	30.10
20-50	192.48	N.A.	47.40
40-70	184.69	N.A.	45.50
60-80	80.59	N.A.	19.80
70-80	30.52	N.A.	7.50
80-90	12.39	N.A.	3.00
90-110	6.97	N.A.	1.70
90-120	7.58	N.A.	1.90
90-130	7.69	N.A.	1.90
90-150	7.69	N.A.	1.90
90-180	7.69	N.A.	1.90
110-180	0.72	N.A.	0.20
0-180	406.27	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	12.55
10-20	36.24
20-30	55.27
30-40	66.90
40-50	70.31
50-60	64.31
60-70	50.07
70-80	30.52
80-90	12.39
90-100	4.86
100-110	2.11
110-120	0.62
120-130	0.10
130-140	0.01
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

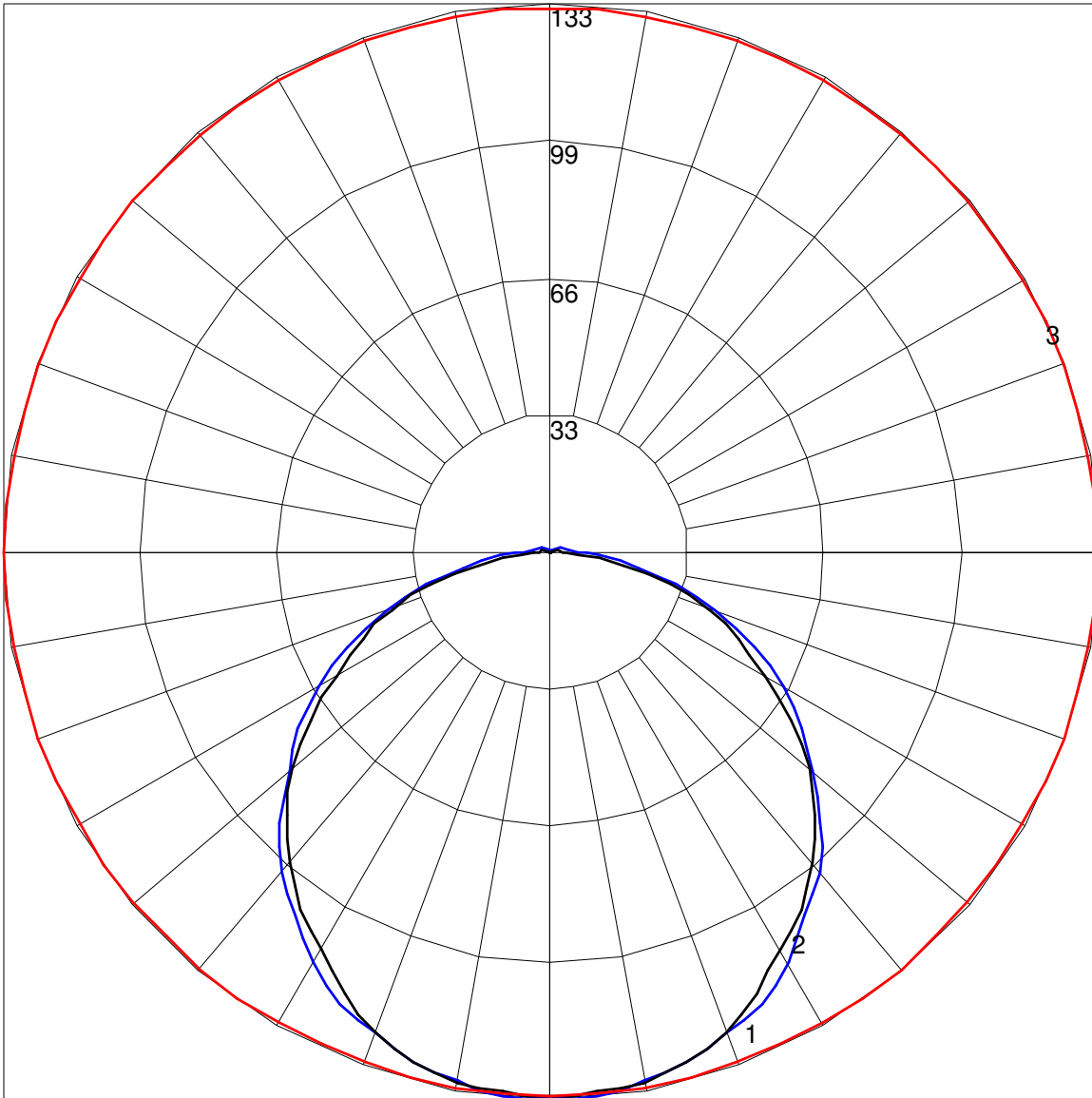
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	89	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	72	69	67
3	89	78	70	63	86	76	68	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	60	54	50	48
5	75	61	52	46	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 132.62 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.)