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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-2006-72ST30S-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3327
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 1/12/2018 4:05:59 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4R00-12-2006-72ST30S-NA
 [LUMINAIRE] Natural anodized aluminum housing with half round lightly frosted lens
 [LAMP] Six (6) white LEDs (3000K)
 [ELECTRICALS] 24.00 VDC, 0.29 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	624
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	7.08
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20818	23908	32696
55	17530	21251	32967
65	15274	17294	30248
75	10215	11489	22638
85	6576	8426	16072

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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>
0.0	184.78	184.78	184.78	184.78	184.78	184.78	184.78	184.78	184.78	184.78
2.5	184.95	184.92	184.89	184.88	184.86	184.86	184.86	184.88	184.90	184.92
5.0	184.37	184.40	184.42	184.43	184.43	184.49	184.55	184.59	184.63	184.71
7.5	183.42	183.46	183.49	183.53	183.56	183.66	183.76	183.81	183.85	183.94
10.0	182.44	182.53	182.61	182.62	182.62	182.81	183.00	183.10	183.20	183.33
12.5	181.22	181.28	181.34	181.43	181.51	181.67	181.82	181.97	182.12	182.35
15.0	180.06	179.98	179.90	180.11	180.31	180.39	180.47	180.52	180.56	180.83
17.5	178.24	178.25	178.25	178.46	178.67	178.75	178.83	178.83	178.83	179.06
20.0	176.22	176.31	176.39	176.58	176.77	176.77	176.76	176.78	176.80	176.91
22.5	173.64	173.91	174.17	174.31	174.46	174.49	174.51	174.53	174.54	174.51
25.0	171.11	171.29	171.46	171.49	171.53	171.62	171.71	171.80	171.87	171.81
27.5	168.35	168.48	168.60	168.68	168.75	168.69	168.64	168.72	168.79	168.60
30.0	165.12	165.14	165.16	165.25	165.33	165.26	165.19	165.17	165.14	165.03
32.5	161.38	161.46	161.54	161.63	161.72	161.69	161.66	161.52	161.39	161.33
35.0	157.03	157.22	157.40	157.68	157.96	157.91	157.86	157.80	157.73	157.44
37.5	152.36	152.64	152.91	153.25	153.58	153.68	153.77	153.67	153.57	153.16
40.0	147.57	147.74	147.90	148.37	148.84	148.97	149.11	148.96	148.82	148.41
42.5	141.49	141.65	141.80	142.62	143.43	143.69	143.94	143.94	143.94	143.50
45.0	133.68	134.09	134.49	135.75	137.01	137.85	138.68	138.79	138.90	138.43
47.5	124.31	125.07	125.82	127.86	129.90	131.48	133.06	133.30	133.53	132.88
50.0	115.86	116.60	117.33	119.89	122.45	124.83	127.21	127.60	127.98	127.00
52.5	109.90	110.38	110.85	113.34	115.83	118.57	121.30	121.57	121.84	120.63
55.0	106.95	106.64	106.33	108.30	110.26	112.90	115.53	115.56	115.58	114.11
57.5	104.72	103.82	102.91	103.92	104.92	107.22	109.52	109.31	109.08	107.23
60.0	100.30	99.32	98.35	98.71	99.07	100.95	102.81	102.45	102.08	99.72
62.5	93.76	92.95	92.15	92.26	92.36	93.73	95.09	94.58	94.07	91.60
65.0	85.46	84.87	84.27	84.37	84.46	85.52	86.57	85.88	85.19	82.77
67.5	76.07	75.57	75.06	75.27	75.48	76.27	77.05	76.33	75.61	73.39
70.0	66.46	66.11	65.76	65.81	65.87	66.42	66.96	66.35	65.74	63.93
72.5	57.77	57.48	57.19	56.97	56.75	57.02	57.28	56.78	56.28	54.80
75.0	50.25	49.95	49.64	49.31	48.98	48.95	48.91	48.39	47.86	46.61
77.5	43.32	43.19	43.05	42.79	42.51	42.32	42.12	41.52	40.91	39.67
80.0	37.47	37.39	37.30	37.14	36.97	36.85	36.72	36.27	35.82	34.51
82.5	32.23	32.26	32.28	32.28	32.27	32.24	32.20	31.90	31.60	30.49
85.0	26.92	27.10	27.28	27.49	27.70	27.84	27.97	27.90	27.82	27.00
87.5	22.24	22.48	22.72	23.06	23.39	23.56	23.73	23.80	23.87	23.30
90.0	18.42	18.67	18.92	19.24	19.56	19.72	19.88	19.94	20.00	19.37
100.0	7.66	7.88	8.08	8.20	8.32	8.11	7.89	7.75	7.62	7.26
110.0	4.47	4.53	4.59	4.45	4.31	3.99	3.66	3.35	3.03	2.90
120.0	1.66	1.67	1.67	1.61	1.55	1.44	1.34	1.15	0.96	0.85
130.0	0.73	0.73	0.73	0.70	0.66	0.60	0.54	0.47	0.40	0.39
140.0	0.41	0.41	0.41	0.44	0.45	0.44	0.43	0.42	0.00	0.00
150.0	0.00	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	0.00
170.0	0.00	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	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>
0.0	184.78	184.78	184.78	184.78	184.78	184.78	184.78	184.78	184.78
2.5	184.93	184.92	184.92	184.86	184.80	184.84	184.87	184.88	184.89
5.0	184.79	184.75	184.71	184.65	184.58	184.64	184.71	184.72	184.73
7.5	184.02	184.03	184.03	184.08	184.13	184.17	184.21	184.26	184.31

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10.0	183.45	183.53	183.61	183.64	183.66	183.67	183.68	183.64	183.59
12.5	182.57	182.64	182.70	182.63	182.55	182.46	182.37	182.35	182.32
15.0	181.10	181.20	181.28	181.23	181.17	181.06	180.93	180.86	180.78
17.5	179.28	179.31	179.33	179.22	179.10	179.04	178.98	178.86	178.73
20.0	177.02	177.02	177.02	176.90	176.76	176.73	176.70	176.58	176.46
22.5	174.48	174.42	174.35	174.31	174.26	174.24	174.22	174.14	174.06
25.0	171.75	171.56	171.36	171.27	171.17	171.06	170.94	170.85	170.76
27.5	168.40	168.18	167.96	167.75	167.53	167.39	167.25	167.08	166.90
30.0	164.91	164.55	164.18	163.87	163.56	163.49	163.41	163.45	163.49
32.5	161.26	160.76	160.26	159.87	159.48	159.45	159.42	159.42	159.41
35.0	157.14	156.67	156.19	155.62	155.05	155.03	155.00	155.11	155.22
37.5	152.74	152.12	151.50	150.81	150.12	150.21	150.30	150.26	150.21
40.0	147.99	147.22	146.44	145.80	145.15	145.14	145.12	144.85	144.58
42.5	143.06	142.21	141.35	140.58	139.80	139.46	139.12	138.69	138.25
45.0	137.96	137.08	136.20	135.04	133.89	133.02	132.14	131.86	131.57
47.5	132.22	131.40	130.56	129.00	127.43	126.26	125.08	125.09	125.09
50.0	126.02	124.95	123.86	122.15	120.44	119.74	119.04	119.46	119.88
52.5	119.42	117.99	116.57	115.28	114.00	114.01	114.02	114.72	115.43
55.0	112.63	110.70	108.77	108.24	107.70	108.28	108.86	109.21	109.57
57.5	105.36	103.02	100.66	101.11	101.56	101.67	101.78	101.61	101.43
60.0	97.35	94.92	92.49	93.75	95.01	94.20	93.39	93.07	92.74
62.5	89.12	86.91	84.69	86.08	87.48	86.18	84.88	84.63	84.38
65.0	80.35	78.58	76.80	77.83	78.85	77.69	76.52	76.41	76.29
67.5	71.17	69.81	68.45	69.08	69.70	68.90	68.09	68.05	68.01
70.0	62.12	61.07	60.02	60.32	60.63	59.95	59.27	58.64	58.01
72.5	53.32	52.66	51.99	51.86	51.72	50.66	49.59	47.76	45.93
75.0	45.36	44.82	44.28	43.84	43.40	40.99	38.57	37.90	37.22
77.5	38.43	37.80	37.18	36.51	35.84	32.58	29.30	29.61	29.91
80.0	33.19	32.26	31.32	30.33	29.33	25.83	22.32	23.04	23.76
82.5	29.37	28.12	26.87	25.52	24.17	20.64	17.10	17.20	17.29
85.0	26.17	24.74	23.30	21.71	20.12	16.65	13.18	12.35	11.51
87.5	22.73	21.39	20.04	18.41	16.78	13.61	10.44	9.00	7.55
90.0	18.74	17.47	16.20	14.76	13.32	10.72	8.11	6.90	5.69
100.0	6.90	6.04	5.18	4.24	3.29	2.72	2.13	2.30	2.46
110.0	2.77	2.31	1.84	1.42	1.00	1.00	1.00	1.02	1.04
120.0	0.73	0.73	0.73	0.81	0.88	0.88	0.87	0.87	0.86
130.0	0.38	0.38	0.38	0.42	0.45	0.50	0.54	0.57	0.61
140.0	0.00	0.00	0.00	0.41	0.42	0.42	0.41	0.42	0.42
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	68.61	N.A.	11.00
0-30	147.66	N.A.	23.60
0-40	245.71	N.A.	39.40
0-60	449.00	N.A.	71.90
0-80	578.32	N.A.	92.60
0-90	604.43	N.A.	96.80
10-90	586.86	N.A.	94.00
20-40	177.09	N.A.	28.40
20-50	281.69	N.A.	45.10
40-70	283.54	N.A.	45.40
60-80	129.32	N.A.	20.70
70-80	49.07	N.A.	7.90
80-90	26.11	N.A.	4.20
90-110	16.87	N.A.	2.70
90-120	18.80	N.A.	3.00
90-130	19.53	N.A.	3.10
90-150	19.95	N.A.	3.20
90-180	19.95	N.A.	3.20
110-180	3.08	N.A.	0.50
0-180	624.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	17.57
10-20	51.04
20-30	79.05
30-40	98.04
40-50	104.60
50-60	98.70
60-70	80.25
70-80	49.07
80-90	26.11
90-100	12.20
100-110	4.67
110-120	1.93
120-130	0.74
130-140	0.32
140-150	0.10
150-160	0.00
160-170	0.00
170-180	0.00

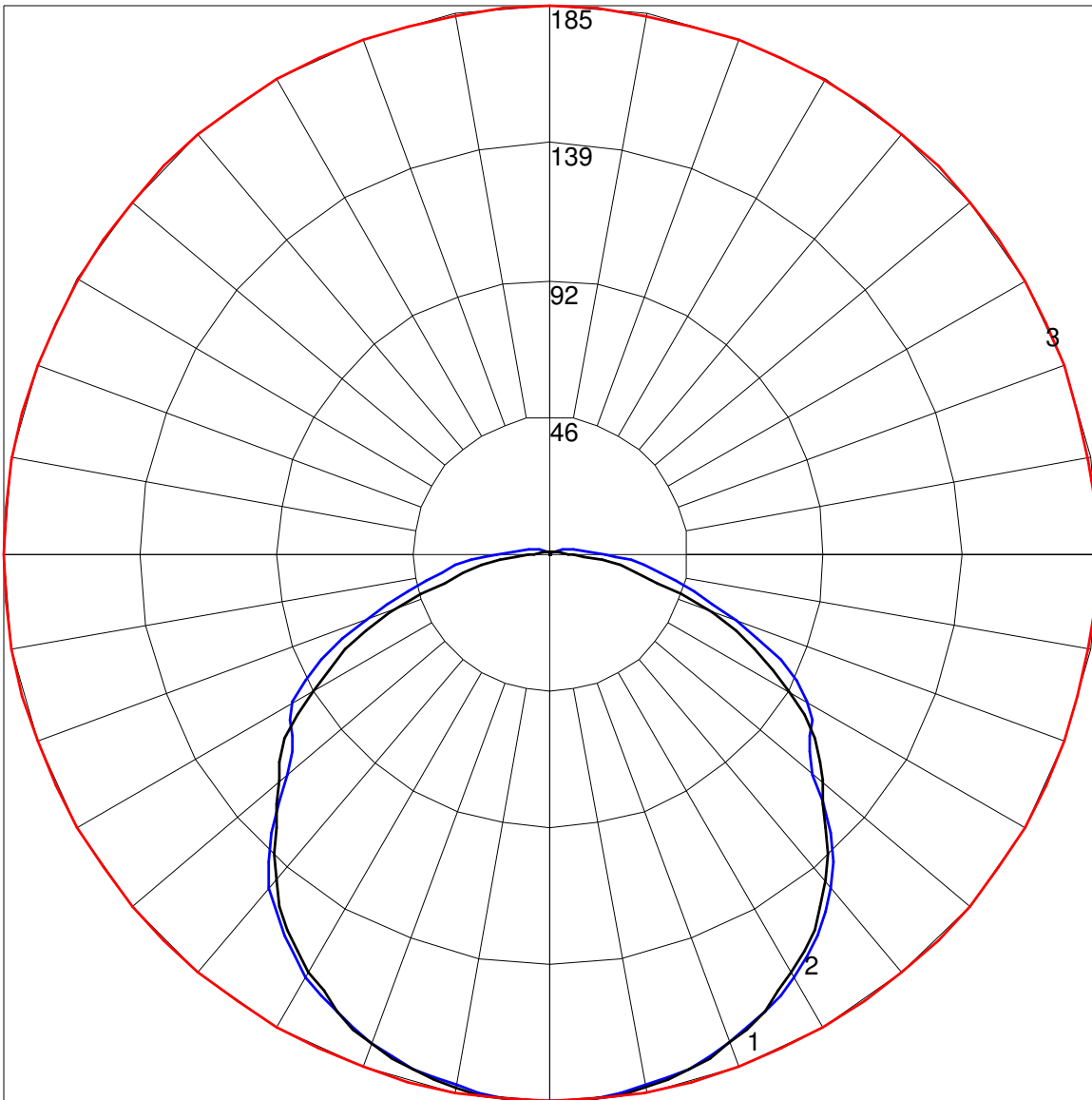
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97	97
1	107	101	97	92	104	99	95	91	94	90	87	89	87	84	85	83	81	78	78
2	97	88	80	74	94	86	79	73	81	76	71	78	73	69	74	70	67	64	64
3	88	77	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	54	54
4	80	68	58	51	77	66	57	51	63	56	50	60	54	49	58	52	48	45	45
5	73	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34	34
7	63	49	40	33	61	48	39	33	46	38	33	44	37	32	43	36	32	30	30
8	58	44	36	30	56	44	35	29	42	34	29	40	34	29	39	33	28	26	26
9	54	41	32	27	53	40	32	26	39	31	26	37	31	26	36	30	25	24	24
10	51	37	29	24	49	37	29	24	36	28	24	34	28	23	33	27	23	21	21

POLAR GRAPH



Maximum Candela = 184.95 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.)