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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4S-DL-0-5-35NA-.5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4264
 [ECN] 4047
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 6/4/2020 6:45:12 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4R-DL-0-5-35NA-.5
 [LUMINAIRE] Natural anodized aluminum housing with half round dome lens, lightly frosted
 [LAMP] Seven (7) white LEDs (3500K)
 [_ELECTRICALS] 24.02 VDC, 0.10 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	288
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	2.37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
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	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22284	23530	33263
55	18896	19678	30638
65	15163	15352	27496
75	9973	10148	22399
85	4911	5378	10336

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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	93.17	93.17	93.17	93.17	93.17	93.17	93.17	93.17	93.17	93.17
2.5	93.18	93.04	92.89	92.92	92.94	92.95	92.95	92.97	92.98	92.97
5.0	93.24	93.09	92.94	93.00	93.04	93.06	93.07	93.09	93.11	93.12
7.5	93.14	92.99	92.83	92.90	92.96	93.00	93.04	93.05	93.07	93.12
10.0	92.58	92.42	92.26	92.33	92.40	92.43	92.46	92.55	92.64	92.69
12.5	91.53	91.42	91.31	91.39	91.45	91.53	91.59	91.72	91.84	91.91
15.0	90.28	90.27	90.26	90.42	90.59	90.67	90.75	90.82	90.89	91.04
17.5	89.47	89.38	89.29	89.43	89.57	89.64	89.72	89.82	89.90	89.99
20.0	88.41	88.32	88.22	88.37	88.52	88.56	88.59	88.69	88.79	88.80
22.5	87.25	87.06	86.86	86.99	87.11	87.24	87.36	87.43	87.49	87.34
25.0	85.84	85.58	85.31	85.47	85.63	85.75	85.87	85.91	85.95	85.62
27.5	84.11	83.89	83.67	83.87	84.06	84.04	84.02	84.01	84.00	83.59
30.0	81.73	81.65	81.56	81.80	82.03	82.00	81.96	81.85	81.75	81.25
32.5	78.95	78.95	78.94	79.24	79.53	79.64	79.75	79.58	79.41	78.83
35.0	76.54	76.45	76.35	76.60	76.84	77.02	77.20	76.95	76.69	76.14
37.5	73.98	73.83	73.69	73.96	74.24	74.26	74.27	73.89	73.49	73.08
40.0	71.27	71.17	71.07	71.26	71.44	71.33	71.21	70.70	70.19	69.86
42.5	68.31	68.20	68.10	68.25	68.40	68.25	68.10	67.45	66.80	66.69
45.0	65.19	65.02	64.85	65.09	65.33	65.18	65.03	64.33	63.62	63.62
47.5	61.69	61.57	61.44	61.87	62.29	62.08	61.87	61.14	60.41	60.45
50.0	58.15	58.12	58.08	58.44	58.79	58.58	58.37	57.69	57.01	56.98
52.5	55.23	55.13	55.03	55.16	55.28	55.06	54.85	54.15	53.45	53.32
55.0	52.52	52.38	52.23	52.13	52.02	51.66	51.30	50.54	49.77	49.64
57.5	49.72	49.33	48.93	48.85	48.77	48.24	47.71	46.82	45.93	45.74
60.0	46.29	45.82	45.34	45.36	45.36	44.83	44.29	43.24	42.19	41.83
62.5	42.54	42.23	41.93	41.83	41.73	41.22	40.70	39.73	38.76	38.23
65.0	38.65	38.39	38.13	38.02	37.90	37.47	37.03	36.23	35.42	34.77
67.5	34.39	34.09	33.79	33.76	33.72	33.38	33.04	32.41	31.78	31.17
70.0	30.08	29.85	29.61	29.54	29.47	29.10	28.73	28.27	27.81	27.43
72.5	26.06	25.89	25.72	25.50	25.27	24.87	24.45	24.08	23.71	23.54
75.0	22.35	22.18	22.01	21.83	21.65	21.13	20.61	20.30	19.98	19.67
77.5	18.64	18.65	18.64	18.46	18.26	17.82	17.38	17.00	16.61	16.21
80.0	15.45	15.39	15.33	15.17	15.01	14.65	14.29	13.97	13.65	13.26
82.5	12.42	12.30	12.18	12.10	12.02	11.78	11.53	11.27	11.01	10.68
85.0	9.16	9.12	9.07	9.03	8.98	8.88	8.78	8.67	8.55	8.35
87.5	6.77	6.71	6.65	6.62	6.57	6.56	6.55	6.51	6.46	6.37
90.0	5.29	5.26	5.22	5.18	5.13	5.14	5.14	5.12	5.10	5.04
100.0	3.70	3.66	3.61	3.54	3.47	3.41	3.36	3.24	3.12	2.97
110.0	2.31	2.26	2.19	2.04	1.89	1.72	1.54	1.34	1.15	0.96
120.0	0.43	0.43	0.43	0.41	0.38	0.36	0.32	0.30	0.27	0.23
130.0	0.21	0.20	0.19	0.19	0.19	0.18	0.17	0.16	0.15	0.15
140.0	0.17	0.17	0.17	0.18	0.18	0.18	0.17	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	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	93.17	93.17	93.17	93.17	93.17	93.17	93.17	93.17	93.17
2.5	92.96	93.02	93.09	93.23	93.37	93.42	93.45	93.49	93.52
5.0	93.12	93.16	93.21	93.33	93.44	93.50	93.56	93.60	93.63
7.5	93.17	93.18	93.18	93.33	93.48	93.57	93.64	93.67	93.70

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10.0	92.73	92.78	92.82	92.96	93.09	93.12	93.15	93.20	93.24
12.5	91.97	92.04	92.09	92.23	92.36	92.38	92.39	92.41	92.42
15.0	91.18	91.26	91.33	91.39	91.44	91.45	91.47	91.53	91.59
17.5	90.07	90.17	90.28	90.34	90.40	90.30	90.20	90.21	90.21
20.0	88.79	88.82	88.84	88.81	88.78	88.65	88.52	88.47	88.41
22.5	87.20	87.07	86.95	86.86	86.77	86.51	86.25	86.22	86.19
25.0	85.29	85.04	84.78	84.64	84.49	84.15	83.80	83.80	83.78
27.5	83.17	82.83	82.49	82.34	82.18	81.87	81.56	81.46	81.35
30.0	80.75	80.36	79.97	79.89	79.80	79.58	79.36	79.34	79.32
32.5	78.24	77.75	77.24	77.24	77.24	77.26	77.28	77.26	77.25
35.0	75.58	75.14	74.69	74.76	74.83	74.98	75.12	75.08	75.03
37.5	72.66	72.44	72.21	72.31	72.42	72.59	72.77	72.72	72.66
40.0	69.52	69.51	69.49	69.68	69.86	70.00	70.12	70.07	70.02
42.5	66.57	66.64	66.71	66.88	67.04	67.14	67.24	67.22	67.19
45.0	63.60	63.76	63.90	63.99	64.08	64.07	64.06	64.07	64.08
47.5	60.48	60.70	60.92	60.95	60.97	60.83	60.68	60.73	60.78
50.0	56.95	57.19	57.43	57.52	57.60	57.40	57.20	57.23	57.26
52.5	53.19	53.44	53.68	53.80	53.92	53.75	53.57	53.56	53.55
55.0	49.50	49.68	49.86	49.99	50.11	49.93	49.76	49.73	49.70
57.5	45.55	45.72	45.89	46.02	46.15	45.93	45.70	45.73	45.75
60.0	41.47	41.58	41.69	41.74	41.79	41.65	41.50	41.60	41.70
62.5	37.70	37.52	37.33	37.35	37.36	37.43	37.49	37.86	38.23
65.0	34.12	33.67	33.21	33.08	32.95	33.43	33.89	34.39	34.88
67.5	30.55	29.92	29.29	28.99	28.69	29.41	30.13	30.64	31.15
70.0	27.05	26.28	25.51	25.06	24.61	25.44	26.28	26.91	27.54
72.5	23.36	22.61	21.85	21.31	20.75	21.48	22.21	22.90	23.58
75.0	19.36	18.81	18.27	17.71	17.15	17.64	18.12	18.88	19.63
77.5	15.81	15.26	14.71	14.22	13.74	13.97	14.19	14.97	15.75
80.0	12.86	12.27	11.67	11.15	10.64	10.60	10.55	11.20	11.85
82.5	10.35	9.79	9.22	8.66	8.09	7.79	7.49	7.73	7.98
85.0	8.15	7.73	7.30	6.78	6.24	5.74	5.24	4.99	4.73
87.5	6.27	6.01	5.75	5.33	4.91	4.38	3.84	3.26	2.67
90.0	4.98	4.83	4.66	4.35	4.03	3.58	3.13	2.59	2.04
100.0	2.82	2.54	2.25	1.72	1.18	1.00	0.81	1.39	1.97
110.0	0.76	0.59	0.43	0.28	0.13	0.12	0.10	0.10	0.10
120.0	0.19	0.16	0.13	0.12	0.12	0.00	0.00	0.00	0.00
130.0	0.14	0.15	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	34.58	N.A.	12.00
0-30	73.81	N.A.	25.60
0-40	121.30	N.A.	42.10
0-60	216.11	N.A.	75.10
0-80	272.24	N.A.	94.60
0-90	281.10	N.A.	97.70
10-90	272.21	N.A.	94.60
20-40	86.71	N.A.	30.10
20-50	136.33	N.A.	47.40
40-70	129.85	N.A.	45.10
60-80	56.13	N.A.	19.50
70-80	21.09	N.A.	7.30
80-90	8.85	N.A.	3.10
90-110	5.84	N.A.	2.00
90-120	6.47	N.A.	2.20
90-130	6.62	N.A.	2.30
90-150	6.71	N.A.	2.30
90-180	6.71	N.A.	2.30
110-180	0.87	N.A.	0.30
0-180	287.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	8.89
10-20	25.70
20-30	39.23
30-40	47.49
40-50	49.61
50-60	45.20
60-70	35.04
70-80	21.09
80-90	8.85
90-100	3.91
100-110	1.93
110-120	0.63
120-130	0.15
130-140	0.07
140-150	0.02
150-160	0.00
160-170	0.00
170-180	0.00

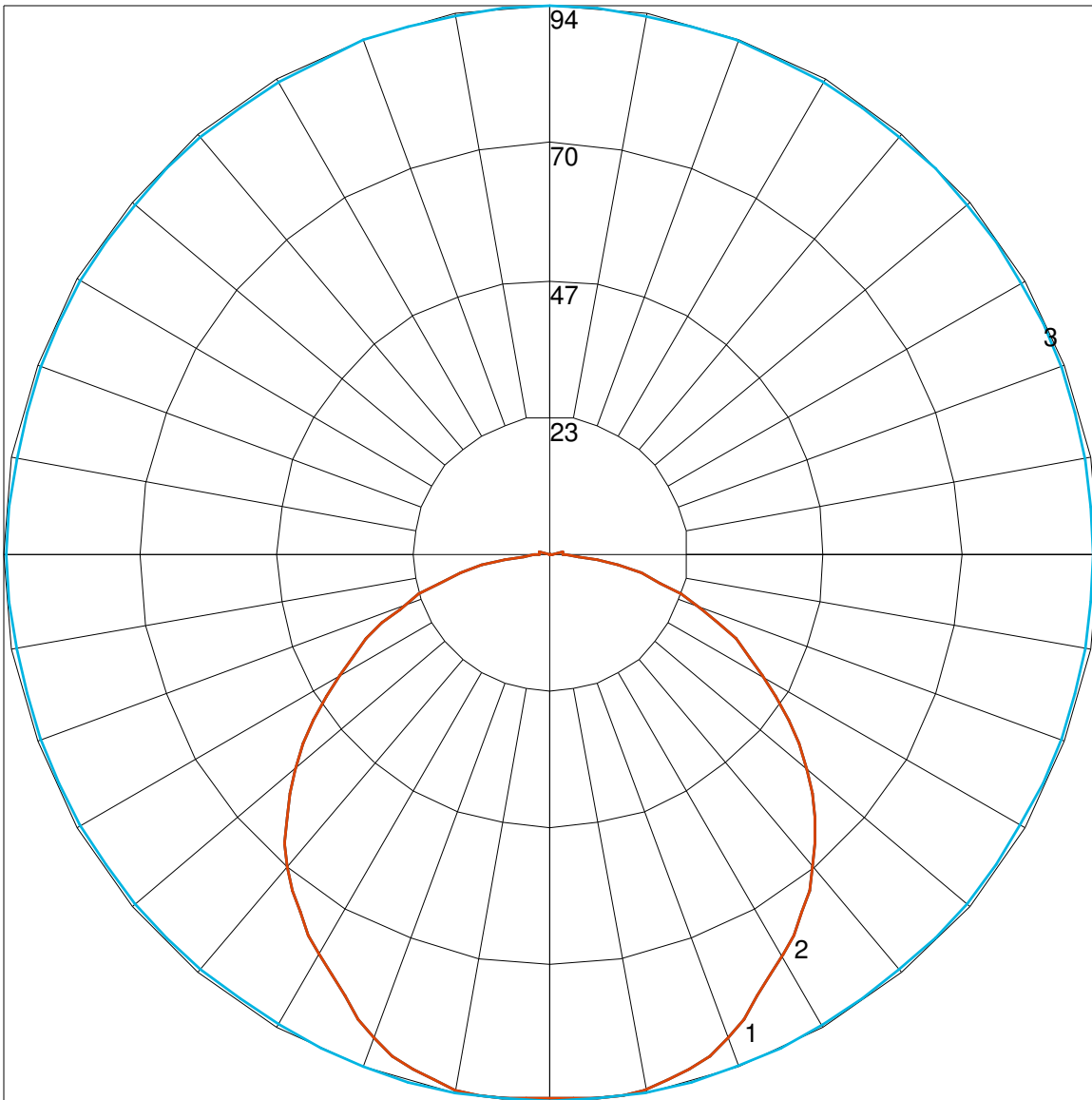
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	102	98	94	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	53	79	67	59	53	65	57	52	62	56	51	60	54	50	47
5	75	61	52	46	46	72	60	52	45	58	50	44	56	49	44	53	48	43	41
6	69	55	46	40	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
7	64	50	41	35	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	31	58	45	37	31	43	36	31	42	35	30	41	34	30	28
9	55	42	34	28	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	25	50	38	30	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 93.7 Located At Horizontal Angle = 90, Vertical Angle = 7.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)