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IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R-LL-0-7-35NA-.5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 4263
 [ECN] 4047
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 6/3/2020 11:15:00 AM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4R-LL-0-7-35NA-.5
 [LUMINAIRE] Natural anodized aluminum housing with lightly frosted lens
 [LAMP] Seven (7) white LEDs (3500K)
 [_ELECTRICALS] 23.97 VDC, 0.15 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	403
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	3.56
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	36797	38543	49978
55	31687	32644	45951
65	22053	25877	37449
75	13382	14608	26495
85	3359	5236	12636

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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	142.15	142.15	142.15	142.15	142.15	142.15	142.15	142.15	142.15	142.15
2.5	143.26	142.22	141.17	141.74	142.30	142.12	141.94	142.09	142.22	142.09
5.0	142.68	141.65	140.61	141.22	141.83	141.65	141.48	141.60	141.72	141.61
7.5	141.83	140.78	139.73	140.30	140.87	140.71	140.55	140.71	140.86	140.76
10.0	140.76	139.72	138.69	139.29	139.88	139.69	139.50	139.68	139.86	139.77
12.5	139.35	138.30	137.24	137.92	138.60	138.48	138.37	138.50	138.61	138.55
15.0	137.73	136.68	135.62	136.42	137.22	137.10	136.98	137.08	137.17	137.06
17.5	135.84	134.80	133.76	134.60	135.45	135.35	135.24	135.35	135.45	135.32
20.0	133.52	132.63	131.75	132.48	133.21	133.23	133.24	133.26	133.29	133.16
22.5	131.10	130.17	129.24	129.93	130.61	130.67	130.73	130.70	130.66	130.63
25.0	128.34	127.35	126.36	126.96	127.56	127.61	127.65	127.66	127.67	127.66
27.5	125.13	124.21	123.28	123.76	124.24	124.26	124.27	124.36	124.44	124.45
30.0	121.63	120.82	120.01	120.44	120.86	120.75	120.62	120.78	120.92	121.00
32.5	118.19	117.44	116.69	117.04	117.39	117.09	116.79	116.96	117.12	117.22
35.0	114.76	113.91	113.06	113.32	113.57	113.31	113.04	113.06	113.07	113.19
37.5	110.97	110.11	109.25	109.47	109.68	109.40	109.11	109.00	108.88	108.91
40.0	106.59	105.79	104.99	105.15	105.30	105.11	104.90	104.82	104.73	104.54
42.5	101.75	101.10	100.44	100.58	100.71	100.59	100.46	100.33	100.20	99.89
45.0	96.88	96.25	95.61	95.76	95.90	95.85	95.79	95.59	95.38	95.07
47.5	91.89	91.31	90.73	90.74	90.75	90.69	90.62	90.43	90.23	89.98
50.0	86.76	86.31	85.85	85.72	85.59	85.40	85.20	85.02	84.84	84.66
52.5	81.92	81.39	80.86	80.67	80.47	80.14	79.80	79.62	79.44	79.13
55.0	77.33	76.75	76.17	75.89	75.61	75.15	74.68	74.28	73.87	73.38
57.5	72.03	71.47	70.91	70.86	70.82	70.33	69.83	69.17	68.51	67.72
60.0	64.69	64.51	64.32	64.70	65.08	64.84	64.60	63.96	63.31	62.19
62.5	56.03	56.01	55.99	56.67	57.34	57.77	58.19	58.04	57.88	56.58
65.0	47.94	47.83	47.72	48.32	48.90	49.63	50.35	50.92	51.49	50.74
67.5	41.48	41.29	41.10	41.35	41.60	41.96	42.31	43.07	43.82	43.95
70.0	36.01	35.76	35.50	35.55	35.59	35.45	35.30	35.59	35.87	36.50
72.5	30.34	30.22	30.08	30.02	29.95	29.68	29.41	29.33	29.26	29.47
75.0	24.64	24.63	24.62	24.48	24.34	24.23	24.12	23.98	23.85	23.58
77.5	18.78	18.78	18.77	18.82	18.86	18.98	19.10	19.02	18.93	18.62
80.0	13.10	13.08	13.06	13.35	13.63	13.83	14.02	14.12	14.22	14.09
82.5	8.42	8.43	8.43	8.68	8.93	9.17	9.41	9.60	9.80	9.86
85.0	4.88	4.96	5.03	5.22	5.41	5.64	5.87	6.04	6.21	6.38
87.5	2.69	2.78	2.87	3.02	3.17	3.36	3.54	3.67	3.80	3.96
90.0	1.55	1.61	1.67	1.77	1.88	2.00	2.13	2.23	2.33	2.47
100.0	0.44	0.45	0.46	0.49	0.51	0.55	0.58	0.59	0.59	0.61
110.0	0.26	0.26	0.27	0.28	0.28	0.27	0.26	0.25	0.23	0.20
120.0	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.18	0.19	0.19
130.0	0.00	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	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. 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	142.15	142.15	142.15	142.15	142.15	142.15	142.15	142.15	142.15
2.5	141.94	142.34	142.73	142.29	141.85	141.69	141.52	141.27	141.01
5.0	141.49	141.86	142.23	141.82	141.42	141.15	140.88	140.72	140.57
7.5	140.66	141.07	141.47	141.07	140.67	140.51	140.34	140.15	139.96

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10.0	139.68	140.10	140.52	140.17	139.81	139.64	139.45	139.23	139.00
12.5	138.49	138.88	139.26	138.96	138.65	138.47	138.29	138.04	137.78
15.0	136.95	137.35	137.75	137.51	137.26	137.01	136.76	136.46	136.15
17.5	135.19	135.53	135.86	135.71	135.55	135.29	135.03	134.73	134.42
20.0	133.03	133.38	133.73	133.60	133.45	133.18	132.89	132.60	132.30
22.5	130.58	130.96	131.32	131.07	130.80	130.50	130.20	130.09	129.98
25.0	127.65	128.13	128.60	128.29	127.98	127.54	127.09	127.12	127.14
27.5	124.45	124.98	125.50	125.12	124.73	124.32	123.90	123.90	123.91
30.0	121.07	121.57	122.07	121.81	121.55	121.05	120.54	120.57	120.60
32.5	117.32	117.83	118.34	118.01	117.68	117.29	116.89	116.84	116.79
35.0	113.31	113.81	114.30	113.94	113.58	113.24	112.89	112.85	112.80
37.5	108.95	109.48	110.01	109.64	109.26	108.96	108.66	108.76	108.85
40.0	104.35	104.77	105.18	104.90	104.61	104.33	104.04	104.22	104.41
42.5	99.57	99.92	100.26	99.86	99.45	99.24	99.02	99.29	99.56
45.0	94.75	94.94	95.13	94.58	94.02	93.88	93.73	93.94	94.14
47.5	89.73	89.55	89.36	88.86	88.35	88.35	88.35	88.60	88.85
50.0	84.47	84.02	83.55	83.08	82.61	82.73	82.86	83.16	83.46
52.5	78.82	78.28	77.73	77.21	76.69	77.06	77.42	77.69	77.94
55.0	72.88	72.41	71.93	71.38	70.82	71.31	71.80	72.04	72.26
57.5	66.93	66.56	66.18	65.57	64.95	65.35	65.75	65.95	66.15
60.0	61.06	60.65	60.24	59.60	58.96	59.08	59.20	59.34	59.47
62.5	55.28	54.67	54.05	53.31	52.57	52.38	52.19	52.29	52.38
65.0	49.99	49.01	48.03	47.16	46.28	45.71	45.13	45.29	45.45
67.5	44.08	43.24	42.40	41.26	40.10	39.31	38.52	38.71	38.90
70.0	37.12	36.99	36.85	35.43	34.00	33.18	32.37	32.54	32.71
72.5	29.69	30.22	30.74	29.51	28.28	27.50	26.71	26.84	26.98
75.0	23.31	23.75	24.18	23.58	22.97	22.24	21.50	21.59	21.67
77.5	18.30	18.28	18.25	18.13	18.00	17.36	16.72	16.75	16.77
80.0	13.96	13.73	13.50	13.47	13.43	12.94	12.45	12.37	12.27
82.5	9.93	9.85	9.77	9.69	9.61	9.22	8.83	8.56	8.28
85.0	6.55	6.64	6.73	6.70	6.66	6.30	5.94	5.48	5.02
87.5	4.12	4.29	4.45	4.48	4.51	4.14	3.77	3.25	2.73
90.0	2.60	2.75	2.90	2.95	2.98	2.65	2.32	2.03	1.74
100.0	0.63	0.57	0.52	0.36	0.21	0.18	0.15	0.36	0.57
110.0	0.16	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.14
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	52.11	N.A.	12.90
0-30	110.91	N.A.	27.50
0-40	181.84	N.A.	45.10
0-60	320.89	N.A.	79.60
0-80	393.96	N.A.	97.70
0-90	401.22	N.A.	99.50
10-90	387.77	N.A.	96.20
20-40	129.73	N.A.	32.20
20-50	203.02	N.A.	50.30
40-70	186.97	N.A.	46.40
60-80	73.07	N.A.	18.10
70-80	25.14	N.A.	6.20
80-90	7.26	N.A.	1.80
90-110	1.85	N.A.	0.50
90-120	1.99	N.A.	0.50
90-130	2.04	N.A.	0.50
90-150	2.04	N.A.	0.50
90-180	2.04	N.A.	0.50
110-180	0.19	N.A.	0.00
0-180	403.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.45
10-20	38.67
20-30	58.79
30-40	70.93
40-50	73.29
50-60	65.76
60-70	47.93
70-80	25.14
80-90	7.26
90-100	1.49
100-110	0.35
110-120	0.15
120-130	0.04
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

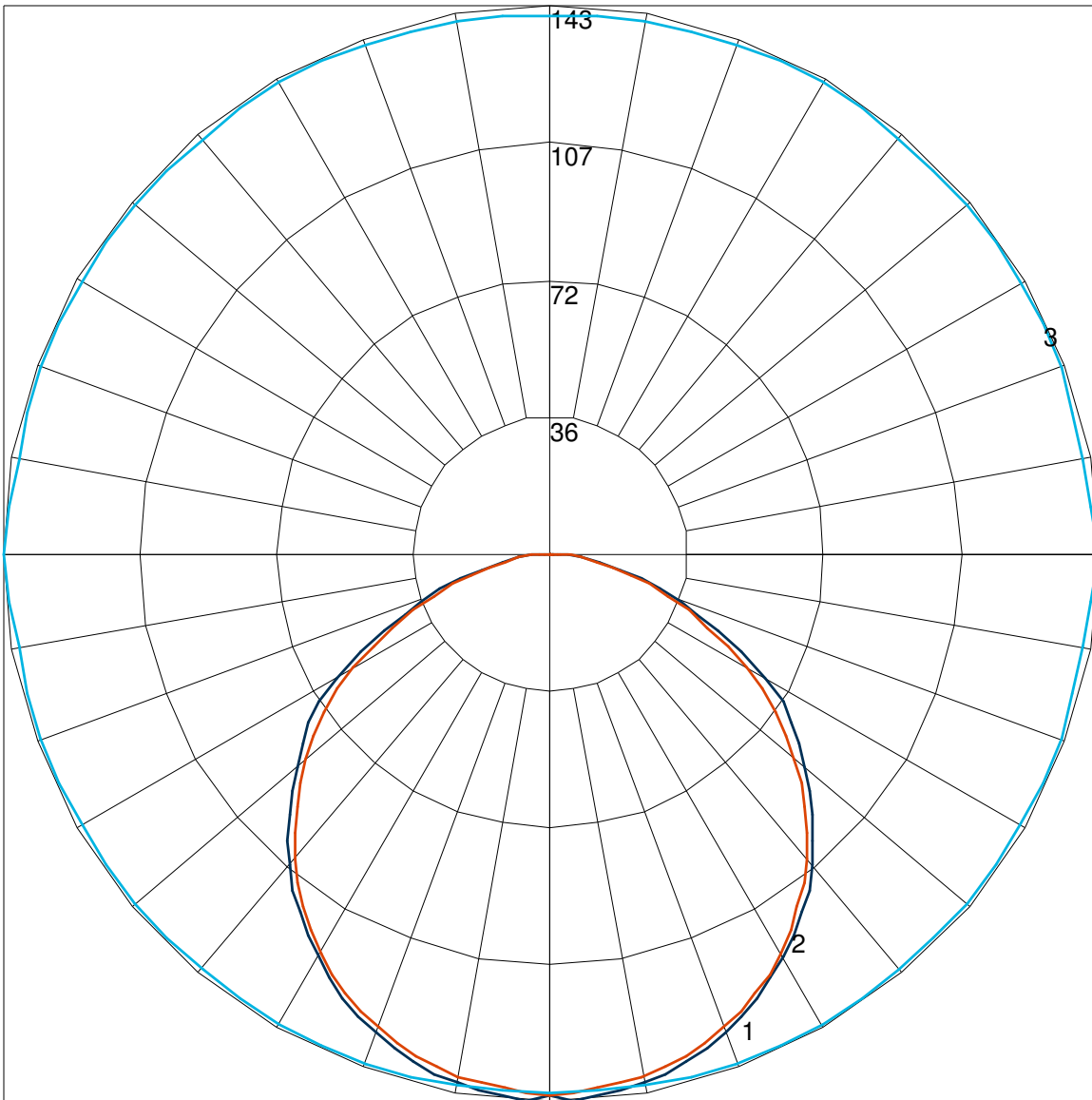
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	100
1	109	104	100	96		106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78		96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65		88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55		80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48		74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41		68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37		63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33		59	46	38	33	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29		55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27		52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 143.26 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.)