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IES INDOOR REPORT PHOTOMETRIC FILENAME : SL-PRO-24DC-04-24-01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3904
[_ECN] 3935
[TESTLAB] Tempo LLC
[ISSUEDATE] 9/13/2019 6:37:36 AM
[MANUFAC] Tempo LLC
[LUMCAT] SL-PRO-24DC-04-24-01
[LUMINAIRE] Aluminum housing with opal lens
[LAMP] Fifty-four (54) white LEDs (2400K)
[_ELECTRICALS] 24.01 VDC, 0.16 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	96
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	24
Total Luminaire Watts	3.93
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2924	3035	4128
55	2743	2768	3919
65	2627	2528	3528
75	2626	2389	2716
85	2606	2463	990

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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	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80
2.5	25.87	25.84	25.80	25.79	25.77	25.78	25.78	25.77	25.76	25.75
5.0	25.79	25.76	25.73	25.71	25.69	25.70	25.69	25.68	25.66	25.65
7.5	25.67	25.64	25.61	25.60	25.57	25.57	25.56	25.54	25.51	25.51
10.0	25.51	25.48	25.45	25.43	25.40	25.39	25.38	25.36	25.34	25.34
12.5	25.28	25.26	25.23	25.21	25.18	25.18	25.17	25.16	25.15	25.14
15.0	25.05	25.02	24.99	24.97	24.94	24.93	24.92	24.91	24.89	24.88
17.5	24.76	24.73	24.70	24.68	24.65	24.65	24.64	24.62	24.59	24.57
20.0	24.44	24.41	24.37	24.35	24.33	24.32	24.30	24.27	24.24	24.23
22.5	24.10	24.06	24.01	24.00	23.97	23.95	23.93	23.90	23.86	23.83
25.0	23.74	23.69	23.64	23.62	23.59	23.56	23.52	23.48	23.44	23.40
27.5	23.34	23.29	23.24	23.21	23.18	23.14	23.10	23.04	22.97	22.92
30.0	22.93	22.88	22.82	22.79	22.75	22.70	22.64	22.56	22.48	22.41
32.5	22.49	22.44	22.38	22.33	22.28	22.21	22.14	22.05	21.95	21.86
35.0	22.04	21.97	21.91	21.85	21.79	21.71	21.62	21.51	21.39	21.28
37.5	21.56	21.49	21.42	21.36	21.30	21.19	21.09	20.96	20.82	20.69
40.0	21.06	20.99	20.92	20.85	20.77	20.64	20.52	20.37	20.21	20.06
42.5	20.54	20.47	20.40	20.32	20.23	20.09	19.93	19.76	19.58	19.40
45.0	20.03	19.95	19.87	19.78	19.68	19.51	19.33	19.13	18.92	18.72
47.5	19.48	19.41	19.33	19.23	19.13	18.92	18.70	18.48	18.25	18.02
50.0	18.94	18.86	18.77	18.66	18.54	18.32	18.09	17.83	17.57	17.30
52.5	18.39	18.31	18.22	18.09	17.97	17.71	17.45	17.17	16.88	16.57
55.0	17.85	17.75	17.66	17.52	17.38	17.10	16.82	16.50	16.17	15.83
57.5	17.30	17.20	17.10	16.96	16.81	16.50	16.19	15.83	15.48	15.09
60.0	16.75	16.65	16.55	16.41	16.26	15.91	15.56	15.17	14.77	14.34
62.5	16.22	16.11	16.01	15.87	15.73	15.34	14.95	14.52	14.08	13.60
65.0	15.68	15.58	15.48	15.37	15.25	14.80	14.34	13.88	13.41	12.88
67.5	15.16	15.06	14.95	14.78	14.60	14.18	13.75	13.25	12.75	12.18
70.0	14.65	14.54	14.42	14.19	13.95	13.56	13.17	12.66	12.14	11.52
72.5	14.19	14.08	13.96	13.71	13.45	13.05	12.64	12.10	11.55	10.89
75.0	13.78	13.66	13.55	13.29	13.03	12.60	12.16	11.59	11.01	10.31
77.5	13.42	13.31	13.20	12.93	12.65	12.21	11.77	11.16	10.55	9.80
80.0	13.12	13.01	12.90	12.64	12.36	11.91	11.45	10.82	10.18	9.40
82.5	12.44	12.35	12.25	12.02	11.78	11.40	11.02	10.45	9.88	9.09
85.0	11.38	11.29	11.20	10.99	10.76	10.40	10.03	9.54	9.03	8.39
87.5	9.94	9.85	9.76	9.55	9.33	8.98	8.63	8.16	7.68	7.08
90.0	8.21	8.14	8.06	7.85	7.62	7.28	6.93	6.46	5.98	5.40
95.0	5.39	5.30	5.20	4.94	4.68	4.28	3.86	3.33	2.79	2.18
100.0	0.91	0.85	0.79	0.62	0.45	0.32	0.19	0.15	0.12	0.11
105.0	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.05
110.0	0.00	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04
115.0	0.00	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
120.0	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03
125.0	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	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
145.0	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
155.0	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
165.0	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
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

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	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80
2.5	25.75	25.75	25.74	25.74	25.73	25.74	25.73	25.73	25.73
5.0	25.64	25.64	25.64	25.64	25.63	25.63	25.62	25.63	25.63
7.5	25.50	25.50	25.50	25.50	25.50	25.49	25.49	25.49	25.50
10.0	25.34	25.34	25.33	25.33	25.33	25.33	25.32	25.33	25.33
12.5	25.12	25.12	25.11	25.11	25.10	25.10	25.09	25.10	25.11
15.0	24.87	24.86	24.85	24.84	24.83	24.83	24.82	24.82	24.81
17.5	24.55	24.54	24.53	24.52	24.51	24.50	24.48	24.49	24.48
20.0	24.20	24.18	24.15	24.14	24.12	24.12	24.10	24.10	24.09
22.5	23.80	23.77	23.74	23.72	23.70	23.69	23.67	23.68	23.67
25.0	23.35	23.32	23.28	23.26	23.23	23.22	23.20	23.19	23.19
27.5	22.86	22.82	22.77	22.74	22.71	22.70	22.68	22.67	22.66
30.0	22.33	22.28	22.23	22.18	22.14	22.13	22.11	22.10	22.09
32.5	21.77	21.70	21.63	21.59	21.54	21.51	21.48	21.47	21.46
35.0	21.17	21.09	21.00	20.94	20.88	20.85	20.82	20.82	20.81
37.5	20.55	20.45	20.34	20.26	20.18	20.15	20.10	20.10	20.09
40.0	19.89	19.76	19.62	19.53	19.44	19.40	19.36	19.34	19.32
42.5	19.22	19.06	18.89	18.78	18.67	18.61	18.55	18.54	18.52
45.0	18.51	18.32	18.12	17.99	17.85	17.78	17.71	17.69	17.67
47.5	17.78	17.56	17.33	17.17	17.00	16.91	16.83	16.81	16.78
50.0	17.02	16.77	16.51	16.31	16.10	16.00	15.90	15.88	15.85
52.5	16.26	15.96	15.66	15.42	15.18	15.06	14.93	14.90	14.87
55.0	15.48	15.14	14.79	14.52	14.23	14.08	13.93	13.89	13.84
57.5	14.70	14.31	13.91	13.59	13.27	13.08	12.89	12.84	12.79
60.0	13.91	13.47	13.03	12.65	12.28	12.05	11.83	11.77	11.71
62.5	13.12	12.63	12.14	11.71	11.28	11.01	10.74	10.66	10.59
65.0	12.35	11.80	11.25	10.76	10.28	9.95	9.62	9.53	9.44
67.5	11.60	11.00	10.39	9.83	9.27	8.89	8.50	8.39	8.27
70.0	10.90	10.23	9.55	8.92	8.29	7.85	7.40	7.24	7.09
72.5	10.23	9.49	8.75	8.05	7.34	6.82	6.28	6.09	5.90
75.0	9.61	8.81	8.02	7.23	6.43	5.81	5.19	4.96	4.72
77.5	9.05	8.21	7.36	6.48	5.59	4.88	4.16	3.87	3.58
80.0	8.61	7.71	6.79	5.83	4.86	4.04	3.21	2.86	2.50
82.5	8.29	7.32	6.35	5.31	4.26	3.34	2.40	1.97	1.53
85.0	7.74	6.88	6.02	4.92	3.81	2.79	1.77	1.26	0.74
87.5	6.47	5.73	4.99	4.14	3.28	2.31	1.33	0.77	0.21
90.0	4.80	4.12	3.43	2.72	2.00	1.34	0.67	0.35	0.02
95.0	1.56	1.00	0.43	0.27	0.12	0.07	0.03	0.03	0.00
100.0	0.10	0.09	0.07	0.06	0.04	0.03	0.02	0.02	0.00
105.0	0.05	0.05	0.03	0.03	0.02	0.02	0.00	0.00	0.00
110.0	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00
115.0	0.02	0.02	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
125.0	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
135.0	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
145.0	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
155.0	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

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CANDELA TABULATION - (Cont.)

165.0	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
175.0	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	9.47	N.A.	9.90
0-30	20.27	N.A.	21.10
0-40	33.63	N.A.	35.10
0-60	62.27	N.A.	64.90
0-80	85.30	N.A.	89.00
0-90	93.09	N.A.	97.10
10-90	90.65	N.A.	94.50
20-40	24.16	N.A.	25.20
20-50	38.65	N.A.	40.30
40-70	41.25	N.A.	43.00
60-80	23.03	N.A.	24.00
70-80	10.42	N.A.	10.90
80-90	7.79	N.A.	8.10
90-110	2.78	N.A.	2.90
90-120	2.80	N.A.	2.90
90-130	2.81	N.A.	2.90
90-150	2.81	N.A.	2.90
90-180	2.81	N.A.	2.90
110-180	0.02	N.A.	0.00
0-180	95.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.44
10-20	7.03
20-30	10.80
30-40	13.36
40-50	14.49
50-60	14.16
60-70	12.61
70-80	10.42
80-90	7.79
90-100	2.69
100-110	0.09
110-120	0.02
120-130	0.01
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

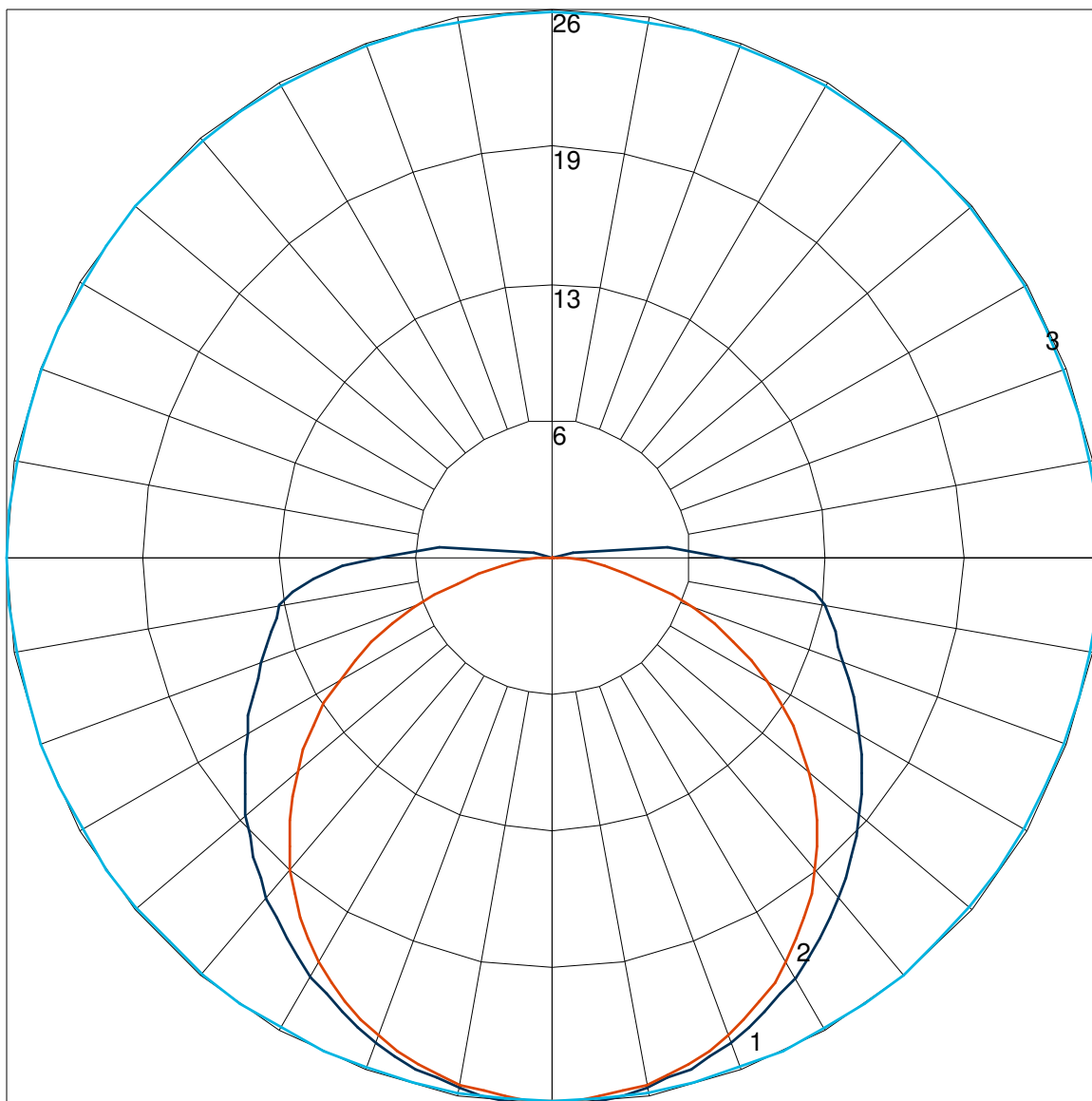
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	98	93	88	101	96	91	86	91	87	83	86	83	80	82	79	77	74
2	94	84	76	69	91	82	74	68	78	71	66	74	69	64	70	66	62	60
3	85	73	64	56	82	71	62	56	68	60	54	64	58	53	61	56	51	49
4	77	64	54	47	75	63	53	46	60	52	45	57	50	44	54	48	43	41
5	71	57	47	40	69	56	46	40	53	45	39	51	44	38	49	42	37	35
6	65	51	41	35	63	50	41	34	48	40	34	46	39	33	44	38	33	30
7	61	46	37	30	59	45	36	30	43	35	30	42	34	29	40	34	29	27
8	56	42	33	27	54	41	33	27	40	32	26	38	31	26	37	30	26	24
9	53	38	30	24	51	38	30	24	36	29	24	35	28	23	34	28	23	21
10	49	35	27	22	48	35	27	22	34	26	21	32	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 25.87 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.)