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## IES INDOOR REPORT PHOTOMETRIC FILENAME : SL-PRO-24DC-04-30-01.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3902  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/12/2019 10:34:00 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-04-30-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (3000K)  
[\_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	104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	27
Total Luminaire Watts	3.91
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	3155	3281	4462
55	2960	2994	4238
65	2838	2738	3808
75	2840	2583	2940
85	2824	2665	1070

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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>	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
<b>2.5</b>	27.91	27.89	27.86	27.85	27.83	27.83	27.82	27.82	27.81	27.81
<b>5.0</b>	27.83	27.81	27.78	27.77	27.76	27.74	27.72	27.71	27.70	27.69
<b>7.5</b>	27.70	27.68	27.65	27.64	27.61	27.59	27.57	27.56	27.55	27.54
<b>10.0</b>	27.52	27.50	27.48	27.46	27.43	27.41	27.38	27.37	27.36	27.36
<b>12.5</b>	27.29	27.27	27.25	27.23	27.19	27.18	27.16	27.16	27.17	27.17
<b>15.0</b>	27.02	27.00	26.98	26.96	26.93	26.92	26.91	26.91	26.90	26.90
<b>17.5</b>	26.73	26.70	26.66	26.64	26.62	26.61	26.61	26.60	26.58	26.57
<b>20.0</b>	26.38	26.35	26.32	26.30	26.28	26.27	26.25	26.23	26.21	26.19
<b>22.5</b>	26.01	25.97	25.93	25.92	25.91	25.89	25.86	25.83	25.79	25.76
<b>25.0</b>	25.61	25.57	25.52	25.51	25.50	25.46	25.42	25.38	25.33	25.29
<b>27.5</b>	25.20	25.15	25.09	25.08	25.06	25.01	24.95	24.89	24.83	24.77
<b>30.0</b>	24.76	24.70	24.64	24.61	24.58	24.51	24.44	24.36	24.28	24.22
<b>32.5</b>	24.29	24.23	24.17	24.13	24.09	24.00	23.91	23.82	23.72	23.63
<b>35.0</b>	23.78	23.72	23.66	23.61	23.56	23.46	23.35	23.24	23.12	23.01
<b>37.5</b>	23.27	23.21	23.14	23.08	23.01	22.89	22.76	22.63	22.50	22.36
<b>40.0</b>	22.73	22.66	22.59	22.52	22.45	22.30	22.15	22.00	21.85	21.68
<b>42.5</b>	22.18	22.11	22.04	21.94	21.84	21.68	21.52	21.34	21.16	20.97
<b>45.0</b>	21.61	21.54	21.47	21.35	21.24	21.05	20.87	20.67	20.46	20.24
<b>47.5</b>	21.03	20.96	20.88	20.75	20.62	20.41	20.21	19.97	19.73	19.48
<b>50.0</b>	20.45	20.37	20.28	20.14	19.99	19.76	19.53	19.26	19.00	18.71
<b>52.5</b>	19.86	19.77	19.68	19.52	19.35	19.10	18.85	18.55	18.24	17.92
<b>55.0</b>	19.26	19.18	19.09	18.91	18.72	18.44	18.16	17.83	17.49	17.12
<b>57.5</b>	18.68	18.58	18.49	18.29	18.09	17.78	17.48	17.11	16.73	16.32
<b>60.0</b>	18.09	17.99	17.90	17.68	17.46	17.13	16.80	16.39	15.97	15.51
<b>62.5</b>	17.51	17.41	17.31	17.07	16.83	16.50	16.15	15.69	15.23	14.72
<b>65.0</b>	16.94	16.83	16.73	16.49	16.26	15.87	15.49	15.00	14.51	13.95
<b>67.5</b>	16.38	16.28	16.17	15.93	15.68	15.28	14.86	14.33	13.80	13.18
<b>70.0</b>	15.84	15.73	15.62	15.36	15.09	14.67	14.25	13.69	13.13	12.46
<b>72.5</b>	15.35	15.24	15.12	14.83	14.54	14.11	13.67	13.08	12.49	11.79
<b>75.0</b>	14.90	14.80	14.68	14.39	14.09	13.63	13.15	12.53	11.90	11.15
<b>77.5</b>	14.53	14.41	14.30	14.00	13.69	13.22	12.73	12.08	11.42	10.61
<b>80.0</b>	14.20	14.10	13.99	13.69	13.38	12.88	12.38	11.70	11.01	10.17
<b>82.5</b>	13.47	13.37	13.28	13.03	12.77	12.35	11.92	11.31	10.69	9.83
<b>85.0</b>	12.33	12.24	12.14	11.90	11.65	11.26	10.87	10.32	9.77	9.08
<b>87.5</b>	10.75	10.66	10.58	10.34	10.10	9.72	9.33	8.82	8.30	7.66
<b>90.0</b>	8.87	8.80	8.72	8.48	8.25	7.88	7.51	7.00	6.48	5.85
<b>95.0</b>	5.84	5.76	5.67	5.37	5.08	4.65	4.21	3.61	3.02	2.37
<b>100.0</b>	0.99	0.93	0.87	0.68	0.49	0.35	0.20	0.17	0.13	0.12
<b>105.0</b>	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.06
<b>110.0</b>	0.00	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
<b>115.0</b>	0.00	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>120.0</b>	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.03	0.03	0.03
<b>125.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02
<b>130.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>135.0</b>	0.00	0.00	0.00	0.00	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>145.0</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>155.0</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>165.0</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>175.0</b>	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	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85
2.5	27.81	27.80	27.79	27.78	27.77	27.77	27.75	27.75	27.75
5.0	27.68	27.67	27.66	27.66	27.65	27.64	27.63	27.63	27.63
7.5	27.53	27.53	27.53	27.52	27.52	27.51	27.50	27.50	27.50
10.0	27.36	27.37	27.37	27.37	27.36	27.35	27.33	27.34	27.34
12.5	27.16	27.16	27.15	27.14	27.13	27.12	27.11	27.10	27.09
15.0	26.89	26.88	26.86	26.84	26.83	26.81	26.79	26.79	26.79
17.5	26.55	26.53	26.51	26.49	26.47	26.46	26.44	26.43	26.42
20.0	26.16	26.13	26.10	26.08	26.06	26.05	26.03	26.02	26.01
22.5	25.72	25.70	25.66	25.64	25.61	25.59	25.57	25.56	25.55
25.0	25.24	25.20	25.16	25.13	25.10	25.08	25.06	25.05	25.04
27.5	24.71	24.67	24.61	24.58	24.54	24.52	24.50	24.49	24.47
30.0	24.14	24.08	24.02	23.98	23.94	23.91	23.89	23.87	23.86
32.5	23.53	23.46	23.39	23.34	23.28	23.25	23.21	23.20	23.19
35.0	22.89	22.81	22.71	22.64	22.58	22.54	22.50	22.49	22.47
37.5	22.22	22.11	21.99	21.91	21.82	21.78	21.73	21.72	21.70
40.0	21.51	21.36	21.21	21.12	21.03	20.97	20.91	20.89	20.87
42.5	20.78	20.60	20.42	20.30	20.18	20.11	20.04	20.03	20.01
45.0	20.01	19.81	19.60	19.45	19.30	19.22	19.15	19.12	19.10
47.5	19.22	18.98	18.74	18.56	18.37	18.28	18.18	18.16	18.13
50.0	18.41	18.13	17.85	17.63	17.40	17.30	17.19	17.16	17.12
52.5	17.58	17.26	16.94	16.68	16.42	16.29	16.15	16.11	16.07
55.0	16.74	16.37	16.00	15.70	15.40	15.23	15.07	15.02	14.97
57.5	15.90	15.48	15.06	14.71	14.36	14.16	13.95	13.90	13.84
60.0	15.04	14.57	14.10	13.70	13.29	13.05	12.80	12.73	12.66
62.5	14.20	13.67	13.14	12.68	12.21	11.91	11.62	11.53	11.44
65.0	13.38	12.78	12.18	11.65	11.11	10.77	10.41	10.30	10.19
67.5	12.57	11.91	11.24	10.63	10.02	9.61	9.19	9.06	8.92
70.0	11.79	11.06	10.32	9.65	8.96	8.48	8.00	7.83	7.67
72.5	11.08	10.27	9.46	8.71	7.95	7.38	6.80	6.60	6.40
75.0	10.40	9.54	8.67	7.83	6.98	6.30	5.63	5.37	5.11
77.5	9.80	8.88	7.96	7.02	6.07	5.29	4.50	4.19	3.87
80.0	9.32	8.34	7.36	6.32	5.28	4.38	3.48	3.10	2.70
82.5	8.97	7.93	6.89	5.76	4.63	3.62	2.60	2.13	1.66
85.0	8.38	7.46	6.53	5.34	4.14	3.03	1.92	1.36	0.80
87.5	7.02	6.22	5.41	4.49	3.57	2.51	1.45	0.84	0.22
90.0	5.21	4.47	3.72	2.94	2.16	1.45	0.73	0.38	0.02
95.0	1.71	1.09	0.46	0.30	0.13	0.08	0.03	0.03	0.00
100.0	0.12	0.10	0.07	0.06	0.04	0.03	0.02	0.02	0.00
105.0	0.05	0.04	0.03	0.03	0.02	0.02	0.00	0.00	0.00
110.0	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00
115.0	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00
120.0	0.02	0.02	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.)**

<b>165.0</b>	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
<b>175.0</b>	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	10.23	N.A.	9.90
0-30	21.90	N.A.	21.10
0-40	36.33	N.A.	35.00
0-60	67.28	N.A.	64.90
0-80	92.18	N.A.	88.90
0-90	100.61	N.A.	97.10
10-90	97.98	N.A.	94.50
20-40	26.11	N.A.	25.20
20-50	41.76	N.A.	40.30
40-70	44.57	N.A.	43.00
60-80	24.90	N.A.	24.00
70-80	11.27	N.A.	10.90
80-90	8.44	N.A.	8.10
90-110	3.02	N.A.	2.90
90-120	3.04	N.A.	2.90
90-130	3.04	N.A.	2.90
90-150	3.04	N.A.	2.90
90-180	3.04	N.A.	2.90
110-180	0.02	N.A.	0.00
0-180	103.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2.63
10-20	7.59
20-30	11.67
30-40	14.44
40-50	15.65
50-60	15.30
60-70	13.62
70-80	11.27
80-90	8.44
90-100	2.92
100-110	0.10
110-120	0.02
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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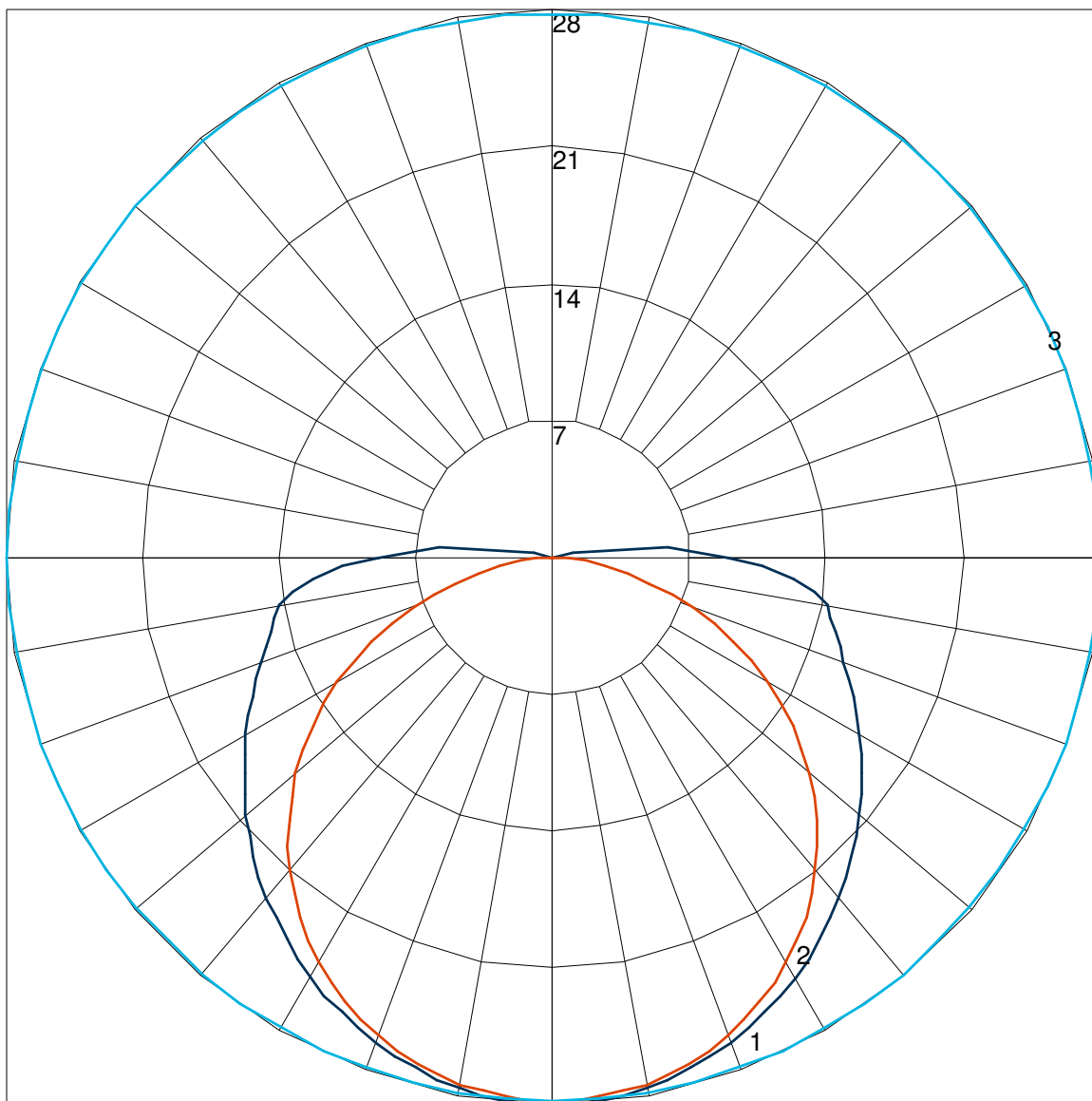
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	98	93	88	101	96	91	86	91	86	83	86	83	80	82	79	77	74
2	94	84	76	69	91	82	74	68	78	71	66	74	68	64	70	66	62	59
3	85	73	64	56	82	71	62	55	67	60	54	64	58	53	61	56	51	49
4	77	64	54	47	75	62	53	46	59	52	45	57	50	44	54	48	43	41
5	71	57	47	40	68	55	46	39	53	45	39	51	44	38	48	42	37	35
6	65	51	41	34	63	50	41	34	48	40	34	46	38	33	44	37	32	30
7	60	46	37	30	58	45	36	30	43	35	30	41	34	29	40	33	29	27
8	56	42	33	27	54	41	33	27	39	32	26	38	31	26	37	30	26	23
9	52	38	30	24	51	38	29	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 = 27.91 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.)