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## IES INDOOR REPORT PHOTOMETRIC FILENAME : SL-PRO-24DC-04-18-01.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3906  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/13/2019 2:15:16 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-04-18-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (1800K)  
[\_ELECTRICALS] 24.00 VDC, 0.16 A, 1.00 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	73
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	19
Total Luminaire Watts	3.95
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	2229	2323	3151
55	2093	2120	2990
65	2007	1937	2683
75	2013	1830	2060
85	1990	1882	749

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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>	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69
<b>2.5</b>	19.71	19.69	19.67	19.67	19.67	19.68	19.68	19.68	19.68	19.69
<b>5.0</b>	19.65	19.63	19.61	19.62	19.62	19.62	19.62	19.62	19.62	19.61
<b>7.5</b>	19.56	19.55	19.54	19.53	19.52	19.53	19.53	19.52	19.51	19.52
<b>10.0</b>	19.43	19.42	19.41	19.41	19.40	19.40	19.39	19.39	19.38	19.39
<b>12.5</b>	19.27	19.26	19.24	19.24	19.24	19.24	19.23	19.23	19.23	19.23
<b>15.0</b>	19.08	19.07	19.06	19.06	19.05	19.05	19.04	19.04	19.04	19.03
<b>17.5</b>	18.87	18.86	18.84	18.84	18.84	18.83	18.82	18.82	18.81	18.81
<b>20.0</b>	18.63	18.62	18.60	18.59	18.59	18.58	18.57	18.57	18.56	18.55
<b>22.5</b>	18.37	18.35	18.33	18.32	18.32	18.31	18.29	18.29	18.27	18.25
<b>25.0</b>	18.08	18.06	18.04	18.04	18.02	18.01	17.99	17.97	17.95	17.92
<b>27.5</b>	17.79	17.77	17.74	17.73	17.72	17.69	17.67	17.63	17.59	17.55
<b>30.0</b>	17.49	17.45	17.42	17.40	17.38	17.35	17.31	17.26	17.21	17.16
<b>32.5</b>	17.14	17.11	17.08	17.06	17.03	16.99	16.94	16.87	16.80	16.74
<b>35.0</b>	16.80	16.76	16.72	16.70	16.66	16.61	16.54	16.46	16.38	16.30
<b>37.5</b>	16.43	16.40	16.35	16.32	16.28	16.20	16.12	16.03	15.93	15.84
<b>40.0</b>	16.06	16.01	15.97	15.93	15.88	15.80	15.70	15.59	15.47	15.35
<b>42.5</b>	15.67	15.62	15.58	15.53	15.47	15.36	15.25	15.12	14.99	14.85
<b>45.0</b>	15.27	15.22	15.17	15.12	15.05	14.93	14.81	14.65	14.48	14.33
<b>47.5</b>	14.87	14.82	14.76	14.69	14.61	14.48	14.35	14.17	13.98	13.80
<b>50.0</b>	14.46	14.40	14.35	14.26	14.17	14.03	13.87	13.67	13.45	13.24
<b>52.5</b>	14.04	13.99	13.93	13.83	13.73	13.57	13.41	13.17	12.92	12.68
<b>55.0</b>	13.62	13.57	13.51	13.39	13.28	13.13	12.98	12.68	12.39	12.12
<b>57.5</b>	13.21	13.15	13.08	12.96	12.84	12.70	12.56	12.21	11.85	11.55
<b>60.0</b>	12.79	12.73	12.66	12.54	12.41	12.27	12.13	11.73	11.32	10.98
<b>62.5</b>	12.38	12.31	12.24	12.13	12.01	11.87	11.71	11.26	10.79	10.42
<b>65.0</b>	11.98	11.91	11.84	11.71	11.58	11.37	11.17	10.73	10.28	9.87
<b>67.5</b>	11.58	11.51	11.45	11.29	11.12	10.85	10.57	10.18	9.78	9.33
<b>70.0</b>	11.20	11.13	11.06	10.89	10.71	10.41	10.11	9.70	9.30	8.84
<b>72.5</b>	10.86	10.79	10.71	10.52	10.33	10.01	9.69	9.28	8.85	8.36
<b>75.0</b>	10.56	10.48	10.39	10.20	10.01	9.67	9.33	8.89	8.44	7.90
<b>77.5</b>	10.28	10.20	10.12	9.92	9.72	9.38	9.03	8.57	8.09	7.51
<b>80.0</b>	10.05	9.97	9.90	9.70	9.50	9.15	8.79	8.30	7.81	7.20
<b>82.5</b>	9.50	9.43	9.37	9.21	9.04	8.75	8.45	8.01	7.57	6.96
<b>85.0</b>	8.69	8.63	8.56	8.40	8.23	7.96	7.68	7.29	6.90	6.41
<b>87.5</b>	7.56	7.51	7.44	7.29	7.13	6.86	6.59	6.22	5.85	5.39
<b>90.0</b>	6.25	6.20	6.14	5.99	5.82	5.56	5.30	4.93	4.56	4.11
<b>95.0</b>	4.08	4.02	3.96	3.77	3.57	3.26	2.94	2.53	2.11	1.65
<b>100.0</b>	0.69	0.65	0.61	0.48	0.35	0.25	0.14	0.12	0.09	0.09
<b>105.0</b>	0.02	0.03	0.02	0.04	0.04	0.05	0.05	0.05	0.05	0.05
<b>110.0</b>	0.00	0.02	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>115.0</b>	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>120.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<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	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69	19.69
2.5	19.69	19.68	19.67	19.66	19.65	19.65	19.64	19.64	19.64
5.0	19.61	19.60	19.60	19.59	19.58	19.58	19.57	19.57	19.56
7.5	19.51	19.51	19.50	19.49	19.48	19.48	19.47	19.46	19.46
10.0	19.38	19.38	19.37	19.36	19.35	19.35	19.33	19.33	19.33
12.5	19.22	19.21	19.21	19.20	19.19	19.19	19.17	19.17	19.17
15.0	19.03	19.02	19.01	19.01	19.00	18.99	18.98	18.98	18.97
17.5	18.81	18.80	18.78	18.77	18.75	18.74	18.73	18.73	18.72
20.0	18.53	18.52	18.50	18.48	18.46	18.45	18.44	18.44	18.43
22.5	18.23	18.21	18.18	18.16	18.13	18.12	18.11	18.10	18.08
25.0	17.89	17.86	17.82	17.80	17.77	17.76	17.74	17.73	17.72
27.5	17.51	17.47	17.43	17.40	17.37	17.35	17.33	17.32	17.32
30.0	17.10	17.06	17.01	16.97	16.94	16.92	16.89	16.89	16.87
32.5	16.67	16.62	16.56	16.51	16.46	16.44	16.42	16.41	16.40
35.0	16.21	16.15	16.07	16.02	15.96	15.94	15.91	15.90	15.88
37.5	15.73	15.65	15.55	15.50	15.43	15.40	15.36	15.35	15.33
40.0	15.23	15.12	15.02	14.94	14.86	14.83	14.79	14.77	14.75
42.5	14.71	14.59	14.46	14.36	14.26	14.22	14.17	14.15	14.13
45.0	14.17	14.02	13.86	13.75	13.64	13.58	13.52	13.51	13.49
47.5	13.61	13.43	13.25	13.12	12.98	12.92	12.85	12.83	12.80
50.0	13.03	12.83	12.62	12.46	12.30	12.23	12.14	12.12	12.09
52.5	12.44	12.21	11.98	11.79	11.60	11.50	11.40	11.37	11.34
55.0	11.85	11.58	11.31	11.09	10.87	10.76	10.63	10.60	10.56
57.5	11.24	10.94	10.64	10.39	10.13	9.99	9.84	9.80	9.76
60.0	10.64	10.31	9.97	9.67	9.37	9.20	9.02	8.97	8.92
62.5	10.04	9.66	9.28	8.95	8.61	8.40	8.19	8.12	8.06
65.0	9.46	9.03	8.60	8.22	7.83	7.59	7.33	7.26	7.18
67.5	8.88	8.41	7.94	7.50	7.06	6.77	6.47	6.38	6.28
70.0	8.38	7.84	7.29	6.81	6.31	5.97	5.61	5.50	5.38
72.5	7.86	7.27	6.68	6.14	5.59	5.18	4.77	4.62	4.48
75.0	7.35	6.74	6.12	5.51	4.90	4.42	3.94	3.76	3.58
77.5	6.93	6.28	5.62	4.94	4.26	3.71	3.16	2.94	2.71
80.0	6.60	5.89	5.18	4.45	3.71	3.08	2.44	2.17	1.90
82.5	6.34	5.60	4.85	4.05	3.25	2.54	1.83	1.49	1.16
85.0	5.91	5.26	4.60	3.76	2.91	2.13	1.35	0.96	0.56
87.5	4.93	4.37	3.80	3.16	2.51	1.76	1.02	0.59	0.15
90.0	3.66	3.14	2.61	2.07	1.53	1.02	0.51	0.27	0.02
95.0	1.18	0.75	0.32	0.21	0.09	0.06	0.02	0.02	0.00
100.0	0.08	0.07	0.05	0.04	0.03	0.02	0.00	0.00	0.00
105.0	0.04	0.03	0.03	0.03	0.02	0.00	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.)**

<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	7.24	N.A.	9.90
0-30	15.50	N.A.	21.10
0-40	25.71	N.A.	35.10
0-60	47.62	N.A.	64.90
0-80	65.25	N.A.	89.00
0-90	71.20	N.A.	97.10
10-90	69.34	N.A.	94.60
20-40	18.47	N.A.	25.20
20-50	29.55	N.A.	40.30
40-70	31.56	N.A.	43.00
60-80	17.63	N.A.	24.00
70-80	7.98	N.A.	10.90
80-90	5.95	N.A.	8.10
90-110	2.12	N.A.	2.90
90-120	2.13	N.A.	2.90
90-130	2.13	N.A.	2.90
90-150	2.13	N.A.	2.90
90-180	2.13	N.A.	2.90
110-180	0.01	N.A.	0.00
0-180	73.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.86
10-20	5.37
20-30	8.26
30-40	10.21
40-50	11.08
50-60	10.83
60-70	9.66
70-80	7.98
80-90	5.95
90-100	2.05
100-110	0.07
110-120	0.01
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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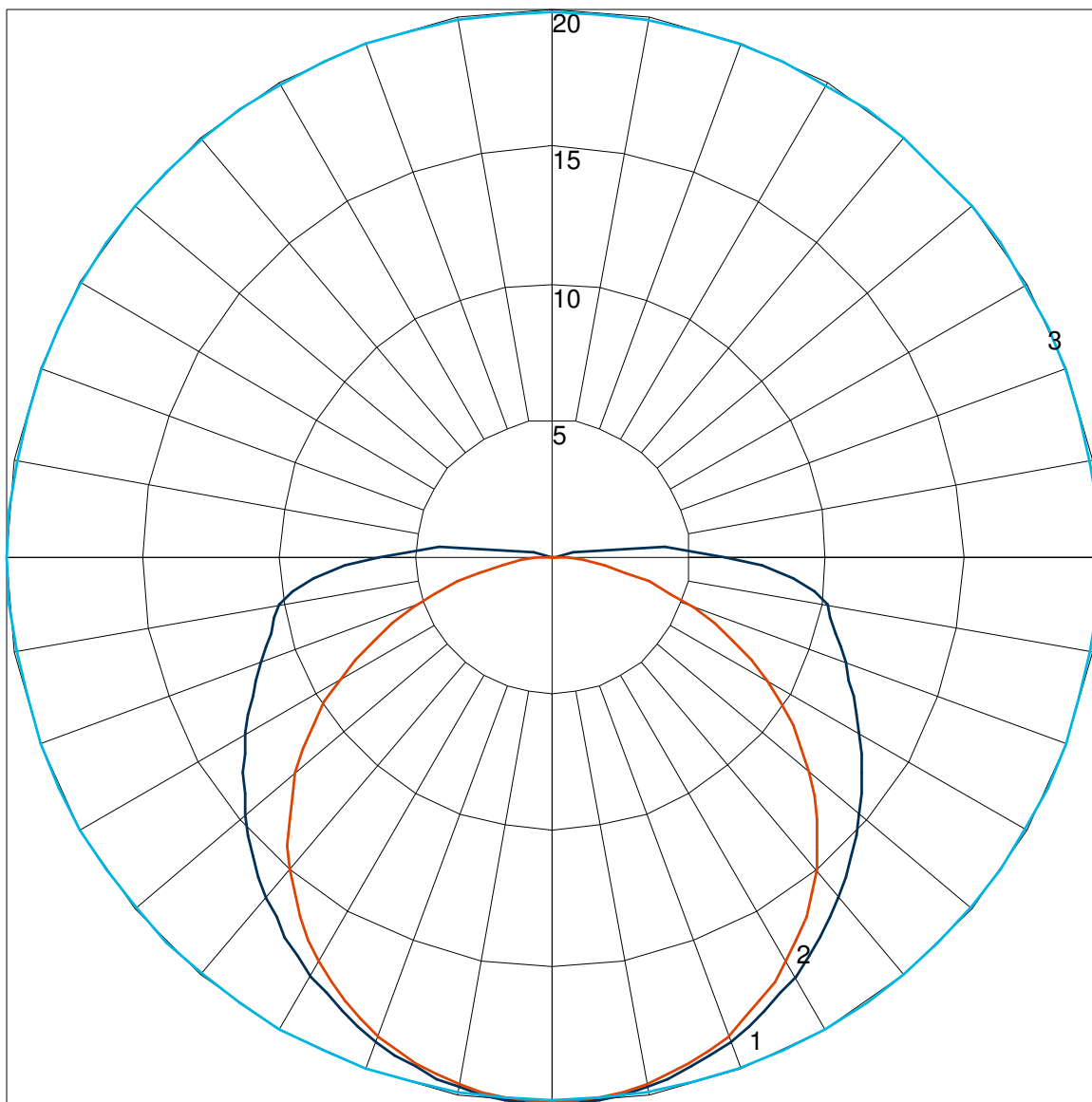
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	105	99	93	88	102	96	91	87	91	87	83	87	83	80	83	80	77	75
2	94	85	76	70	91	82	75	68	78	72	66	74	69	64	71	66	62	60
3	85	73	64	57	83	71	63	56	68	61	54	65	58	53	62	56	52	49
4	78	64	55	47	75	63	54	47	60	52	46	57	50	45	54	49	44	41
5	71	57	47	40	69	56	47	40	53	45	39	51	44	38	49	43	38	35
6	66	51	42	35	64	50	41	34	48	40	34	46	39	33	44	38	33	30
7	61	46	37	30	59	45	37	30	44	36	30	42	35	29	40	34	29	27
8	57	42	33	27	55	41	33	27	40	32	26	38	31	26	37	30	26	24
9	53	39	30	24	51	38	30	24	37	29	24	35	28	23	34	28	23	21
10	50	36	27	22	48	35	27	22	34	26	21	33	26	21	32	25	21	19

POLAR GRAPH



Maximum Candela = 19.71 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.)