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## IES INDOOR REPORT PHOTOMETRIC FILENAME : SL-PRO-24DC-02-20-01.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3912  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/18/2019 6:38:27 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-02-20-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (2000K)  
[\_ELECTRICALS] 24.01 VDC, 0.08 A, 1.00 PF

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	43
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	21
Total Luminaire Watts	2.07
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	1304	1363	1850
55	1222	1243	1755
65	1170	1133	1573
75	1168	1068	1202
85	1156	1095	441

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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>	11.55	11.55	11.55	11.55	11.55	11.55	11.55	11.55	11.55	11.55
<b>2.5</b>	11.56	11.56	11.55	11.55	11.55	11.56	11.56	11.55	11.55	11.55
<b>5.0</b>	11.51	11.52	11.52	11.52	11.52	11.53	11.53	11.53	11.52	11.52
<b>7.5</b>	11.46	11.47	11.47	11.47	11.47	11.48	11.48	11.48	11.47	11.47
<b>10.0</b>	11.38	11.39	11.40	11.40	11.40	11.41	11.41	11.40	11.40	11.39
<b>12.5</b>	11.29	11.30	11.31	11.31	11.31	11.32	11.32	11.31	11.30	11.30
<b>15.0</b>	11.18	11.19	11.20	11.21	11.20	11.21	11.20	11.20	11.19	11.18
<b>17.5</b>	11.05	11.07	11.07	11.08	11.08	11.08	11.07	11.07	11.05	11.05
<b>20.0</b>	10.91	10.92	10.93	10.93	10.93	10.93	10.91	10.91	10.90	10.89
<b>22.5</b>	10.76	10.77	10.77	10.77	10.77	10.76	10.75	10.74	10.73	10.71
<b>25.0</b>	10.59	10.60	10.60	10.60	10.59	10.58	10.57	10.56	10.54	10.52
<b>27.5</b>	10.41	10.42	10.43	10.42	10.41	10.40	10.38	10.35	10.33	10.31
<b>30.0</b>	10.23	10.24	10.24	10.23	10.21	10.19	10.16	10.13	10.10	10.07
<b>32.5</b>	10.03	10.04	10.04	10.02	10.00	9.97	9.94	9.91	9.87	9.83
<b>35.0</b>	9.83	9.83	9.83	9.81	9.78	9.75	9.71	9.67	9.62	9.57
<b>37.5</b>	9.62	9.61	9.61	9.58	9.55	9.51	9.47	9.42	9.36	9.30
<b>40.0</b>	9.40	9.39	9.38	9.35	9.32	9.27	9.22	9.15	9.09	9.02
<b>42.5</b>	9.16	9.16	9.15	9.11	9.07	9.01	8.95	8.88	8.81	8.72
<b>45.0</b>	8.93	8.92	8.90	8.86	8.81	8.75	8.68	8.60	8.51	8.41
<b>47.5</b>	8.68	8.67	8.66	8.61	8.56	8.48	8.40	8.30	8.20	8.09
<b>50.0</b>	8.44	8.42	8.41	8.35	8.29	8.21	8.12	8.01	7.89	7.77
<b>52.5</b>	8.20	8.18	8.16	8.10	8.04	7.93	7.83	7.71	7.58	7.44
<b>55.0</b>	7.95	7.93	7.90	7.84	7.77	7.66	7.54	7.40	7.26	7.11
<b>57.5</b>	7.71	7.68	7.65	7.58	7.50	7.38	7.25	7.10	6.94	6.77
<b>60.0</b>	7.45	7.43	7.40	7.32	7.24	7.11	6.97	6.80	6.62	6.43
<b>62.5</b>	7.22	7.19	7.15	7.07	6.99	6.84	6.69	6.51	6.31	6.10
<b>65.0</b>	6.98	6.95	6.91	6.84	6.77	6.60	6.42	6.22	6.01	5.77
<b>67.5</b>	6.74	6.71	6.68	6.59	6.50	6.33	6.15	5.94	5.72	5.46
<b>70.0</b>	6.52	6.49	6.45	6.35	6.25	6.08	5.90	5.67	5.44	5.16
<b>72.5</b>	6.32	6.28	6.24	6.13	6.02	5.84	5.66	5.42	5.17	4.87
<b>75.0</b>	6.13	6.10	6.06	5.95	5.83	5.65	5.46	5.20	4.93	4.61
<b>77.5</b>	5.98	5.94	5.90	5.79	5.67	5.47	5.27	5.00	4.73	4.39
<b>80.0</b>	5.84	5.81	5.77	5.66	5.54	5.33	5.13	4.84	4.56	4.20
<b>82.5</b>	5.53	5.50	5.46	5.37	5.27	5.10	4.93	4.68	4.42	4.06
<b>85.0</b>	5.05	5.02	4.99	4.89	4.79	4.64	4.48	4.25	4.02	3.73
<b>87.5</b>	4.40	4.37	4.33	4.24	4.14	3.99	3.83	3.62	3.40	3.13
<b>90.0</b>	3.63	3.61	3.57	3.48	3.38	3.23	3.07	2.86	2.64	2.39
<b>95.0</b>	2.36	2.32	2.28	2.17	2.05	1.87	1.69	1.46	1.22	0.95
<b>100.0</b>	0.39	0.36	0.33	0.26	0.19	0.13	0.08	0.06	0.05	0.05
<b>105.0</b>	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<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. 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	11.55	11.55	11.55	11.55	11.55	11.55	11.55	11.55	11.55
2.5	11.55	11.54	11.53	11.53	11.53	11.52	11.51	11.51	11.51
5.0	11.51	11.52	11.51	11.51	11.50	11.50	11.49	11.49	11.48
7.5	11.46	11.46	11.45	11.45	11.44	11.43	11.43	11.43	11.42
10.0	11.38	11.38	11.38	11.37	11.36	11.36	11.35	11.35	11.34
12.5	11.29	11.29	11.28	11.27	11.26	11.26	11.25	11.24	11.24
15.0	11.17	11.16	11.15	11.15	11.14	11.13	11.12	11.12	11.12
17.5	11.03	11.02	11.02	11.01	10.99	10.99	10.98	10.98	10.97
20.0	10.87	10.87	10.85	10.84	10.83	10.82	10.81	10.81	10.80
22.5	10.70	10.68	10.67	10.66	10.64	10.64	10.63	10.62	10.61
25.0	10.50	10.48	10.46	10.45	10.43	10.43	10.41	10.41	10.40
27.5	10.28	10.26	10.23	10.22	10.20	10.19	10.18	10.18	10.17
30.0	10.04	10.02	9.99	9.97	9.95	9.94	9.92	9.91	9.90
32.5	9.79	9.76	9.73	9.70	9.67	9.66	9.64	9.64	9.63
35.0	9.52	9.48	9.44	9.41	9.38	9.37	9.35	9.34	9.32
37.5	9.24	9.19	9.14	9.11	9.07	9.05	9.02	9.02	9.01
40.0	8.94	8.89	8.82	8.78	8.74	8.72	8.69	8.68	8.66
42.5	8.63	8.56	8.48	8.43	8.38	8.35	8.32	8.32	8.31
45.0	8.31	8.23	8.14	8.08	8.01	7.98	7.94	7.94	7.92
47.5	7.98	7.88	7.78	7.71	7.62	7.58	7.54	7.53	7.52
50.0	7.64	7.53	7.41	7.32	7.22	7.17	7.12	7.11	7.09
52.5	7.30	7.16	7.02	6.92	6.80	6.75	6.69	6.67	6.65
55.0	6.95	6.79	6.63	6.51	6.38	6.31	6.23	6.22	6.20
57.5	6.58	6.41	6.24	6.09	5.94	5.86	5.77	5.75	5.72
60.0	6.23	6.04	5.84	5.67	5.50	5.40	5.29	5.27	5.23
62.5	5.88	5.66	5.44	5.24	5.04	4.92	4.80	4.77	4.72
65.0	5.53	5.29	5.04	4.82	4.59	4.44	4.29	4.25	4.21
67.5	5.20	4.92	4.64	4.39	4.13	3.96	3.78	3.73	3.67
70.0	4.88	4.57	4.27	3.98	3.69	3.49	3.28	3.21	3.14
72.5	4.57	4.24	3.90	3.58	3.26	3.02	2.77	2.69	2.61
75.0	4.29	3.93	3.57	3.21	2.85	2.57	2.29	2.19	2.09
77.5	4.04	3.66	3.27	2.87	2.47	2.16	1.84	1.71	1.58
80.0	3.84	3.43	3.01	2.58	2.15	1.79	1.42	1.26	1.11
82.5	3.69	3.25	2.81	2.35	1.88	1.48	1.06	0.87	0.68
85.0	3.43	3.05	2.66	2.18	1.69	1.24	0.79	0.56	0.33
87.5	2.85	2.53	2.20	1.82	1.45	1.02	0.59	0.35	0.10
90.0	2.12	1.82	1.52	1.20	0.89	0.59	0.30	0.16	0.02
95.0	0.68	0.44	0.18	0.12	0.06	0.04	0.00	0.00	0.00
100.0	0.04	0.04	0.03	0.03	0.02	0.02	0.00	0.00	0.00
105.0	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	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	4.25	N.A.	9.90
0-30	9.10	N.A.	21.20
0-40	15.10	N.A.	35.20
0-60	27.94	N.A.	65.10
0-80	38.22	N.A.	89.10
0-90	41.68	N.A.	97.20
10-90	40.59	N.A.	94.60
20-40	10.85	N.A.	25.30
20-50	17.35	N.A.	40.40
40-70	18.47	N.A.	43.10
60-80	10.29	N.A.	24.00
70-80	4.65	N.A.	10.80
80-90	3.46	N.A.	8.10
90-110	1.22	N.A.	2.80
90-120	1.22	N.A.	2.80
90-130	1.22	N.A.	2.80
90-150	1.22	N.A.	2.80
90-180	1.22	N.A.	2.80
110-180	0.00	N.A.	0.00
0-180	42.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.09
10-20	3.16
20-30	4.85
30-40	6.00
40-50	6.50
50-60	6.34
60-70	5.64
70-80	4.65
80-90	3.46
90-100	1.18
100-110	0.03
110-120	0.00
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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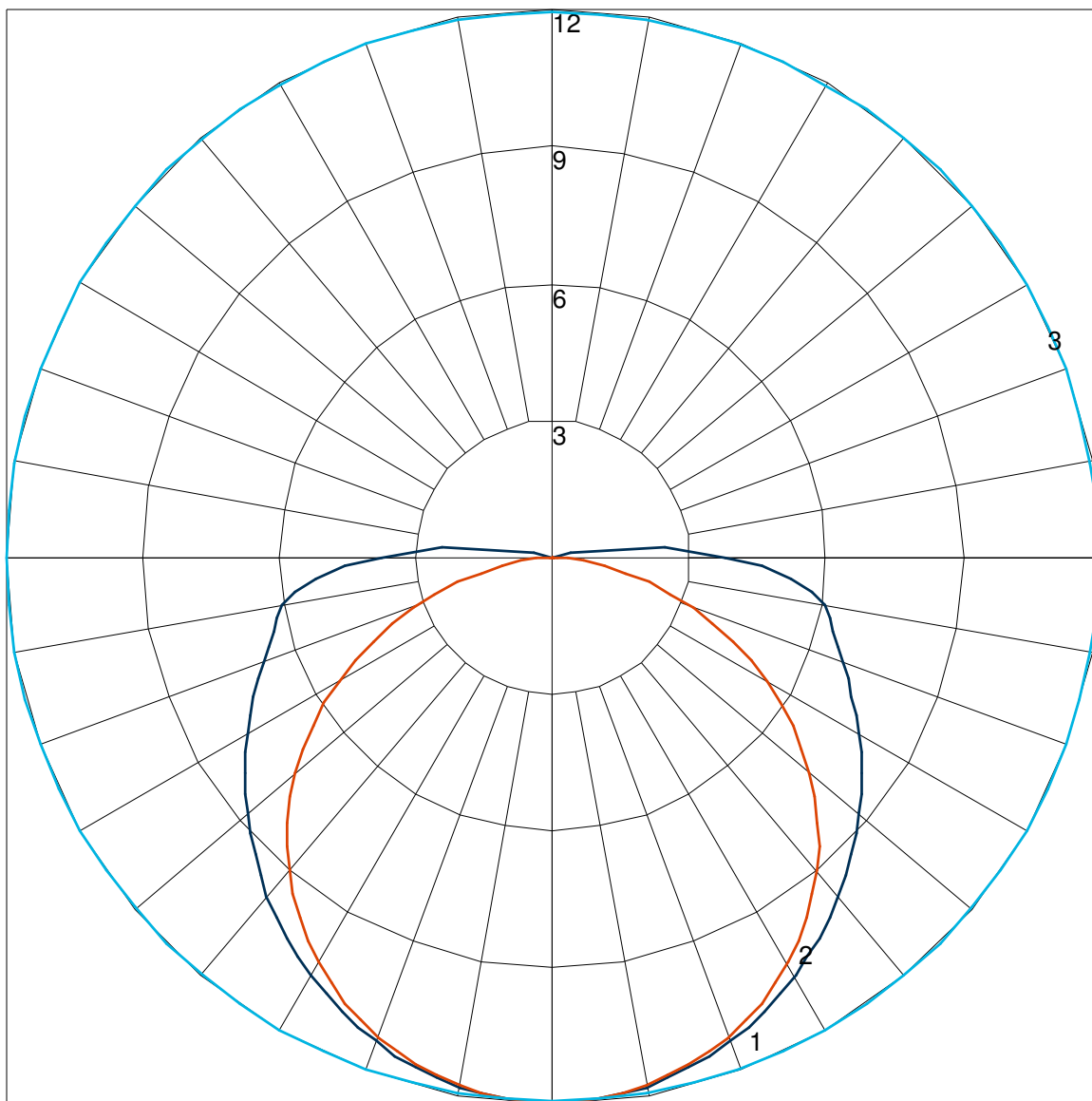
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	44	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	35	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 = 11.56 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.)