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**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-PRO-24DC-02-18-01.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 3913  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/18/2019 12:56:40 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-02-18-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (1800K)  
[\_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	39
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	19
Total Luminaire Watts	2.02
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
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	1166	1234	1677
55	1094	1124	1588
65	1047	1025	1428
75	1048	966	1087
85	1037	992	401

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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>	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
<b>2.5</b>	10.35	10.38	10.42	10.42	10.43	10.43	10.44	10.45	10.45	10.46
<b>5.0</b>	10.32	10.35	10.39	10.39	10.40	10.41	10.41	10.42	10.42	10.43
<b>7.5</b>	10.27	10.31	10.35	10.36	10.35	10.36	10.36	10.37	10.38	10.39
<b>10.0</b>	10.20	10.24	10.28	10.29	10.29	10.30	10.31	10.31	10.31	10.31
<b>12.5</b>	10.11	10.15	10.20	10.21	10.21	10.22	10.22	10.23	10.23	10.23
<b>15.0</b>	10.01	10.06	10.10	10.11	10.11	10.12	10.12	10.12	10.12	10.12
<b>17.5</b>	9.90	9.95	9.98	9.99	9.99	10.00	10.00	10.00	9.99	9.99
<b>20.0</b>	9.78	9.82	9.85	9.86	9.86	9.86	9.86	9.86	9.85	9.85
<b>22.5</b>	9.64	9.68	9.72	9.72	9.72	9.72	9.71	9.71	9.70	9.69
<b>25.0</b>	9.49	9.53	9.56	9.56	9.56	9.55	9.54	9.54	9.53	9.52
<b>27.5</b>	9.33	9.37	9.40	9.40	9.40	9.38	9.37	9.36	9.34	9.33
<b>30.0</b>	9.16	9.20	9.23	9.22	9.22	9.20	9.19	9.16	9.14	9.11
<b>32.5</b>	8.99	9.02	9.05	9.04	9.03	9.00	8.98	8.95	8.92	8.90
<b>35.0</b>	8.80	8.83	8.86	8.85	8.82	8.80	8.77	8.74	8.69	8.66
<b>37.5</b>	8.61	8.64	8.66	8.64	8.62	8.59	8.55	8.51	8.46	8.41
<b>40.0</b>	8.41	8.44	8.46	8.44	8.41	8.37	8.32	8.27	8.22	8.16
<b>42.5</b>	8.20	8.22	8.24	8.22	8.18	8.13	8.08	8.02	7.96	7.88
<b>45.0</b>	7.99	8.01	8.03	7.99	7.96	7.90	7.84	7.77	7.69	7.61
<b>47.5</b>	7.77	7.79	7.80	7.77	7.72	7.66	7.59	7.51	7.42	7.33
<b>50.0</b>	7.56	7.57	7.59	7.54	7.49	7.41	7.33	7.24	7.13	7.03
<b>52.5</b>	7.33	7.35	7.36	7.31	7.25	7.16	7.07	6.97	6.86	6.73
<b>55.0</b>	7.12	7.12	7.13	7.07	7.01	6.92	6.82	6.69	6.56	6.43
<b>57.5</b>	6.90	6.90	6.90	6.84	6.77	6.66	6.55	6.42	6.28	6.12
<b>60.0</b>	6.68	6.68	6.68	6.61	6.53	6.42	6.30	6.15	5.99	5.82
<b>62.5</b>	6.46	6.46	6.45	6.39	6.32	6.18	6.05	5.88	5.71	5.52
<b>65.0</b>	6.25	6.25	6.24	6.17	6.10	5.95	5.80	5.62	5.44	5.22
<b>67.5</b>	6.04	6.03	6.02	5.94	5.85	5.71	5.56	5.36	5.16	4.94
<b>70.0</b>	5.84	5.83	5.82	5.73	5.63	5.48	5.33	5.12	4.91	4.67
<b>72.5</b>	5.66	5.64	5.63	5.53	5.43	5.28	5.12	4.90	4.67	4.41
<b>75.0</b>	5.50	5.48	5.46	5.37	5.26	5.10	4.93	4.69	4.45	4.17
<b>77.5</b>	5.37	5.35	5.32	5.22	5.11	4.94	4.76	4.52	4.27	3.97
<b>80.0</b>	5.24	5.22	5.21	5.10	5.00	4.82	4.64	4.38	4.12	3.80
<b>82.5</b>	4.95	4.94	4.93	4.85	4.76	4.61	4.45	4.23	3.99	3.67
<b>85.0</b>	4.53	4.52	4.50	4.42	4.33	4.19	4.05	3.85	3.64	3.38
<b>87.5</b>	3.94	3.93	3.91	3.83	3.74	3.61	3.47	3.27	3.07	2.83
<b>90.0</b>	3.26	3.24	3.22	3.14	3.05	2.92	2.78	2.59	2.39	2.16
<b>95.0</b>	2.11	2.09	2.06	1.96	1.85	1.70	1.54	1.32	1.10	0.86
<b>100.0</b>	0.34	0.33	0.31	0.24	0.17	0.12	0.07	0.06	0.04	0.04
<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	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44	10.44
2.5	10.46	10.46	10.46	10.46	10.45	10.45	10.45	10.44	10.44
5.0	10.43	10.43	10.43	10.43	10.42	10.43	10.42	10.42	10.42
7.5	10.38	10.38	10.38	10.38	10.38	10.38	10.37	10.37	10.37
10.0	10.31	10.31	10.31	10.31	10.30	10.30	10.30	10.30	10.30
12.5	10.22	10.22	10.21	10.22	10.22	10.21	10.20	10.20	10.20
15.0	10.11	10.11	10.11	10.11	10.10	10.10	10.09	10.09	10.09
17.5	9.99	9.98	9.98	9.97	9.97	9.97	9.96	9.96	9.96
20.0	9.84	9.84	9.83	9.83	9.82	9.82	9.80	9.81	9.81
22.5	9.68	9.67	9.66	9.66	9.65	9.65	9.64	9.64	9.63
25.0	9.50	9.49	9.47	9.47	9.46	9.45	9.44	9.44	9.44
27.5	9.30	9.29	9.27	9.26	9.25	9.24	9.23	9.23	9.22
30.0	9.09	9.07	9.05	9.04	9.02	9.01	9.00	9.00	9.00
32.5	8.86	8.84	8.81	8.79	8.77	8.76	8.75	8.74	8.73
35.0	8.62	8.59	8.55	8.52	8.50	8.49	8.48	8.47	8.46
37.5	8.36	8.32	8.27	8.25	8.22	8.21	8.19	8.18	8.17
40.0	8.09	8.04	7.98	7.95	7.91	7.90	7.88	7.87	7.86
42.5	7.81	7.75	7.68	7.64	7.60	7.57	7.54	7.54	7.53
45.0	7.52	7.45	7.37	7.32	7.26	7.23	7.20	7.19	7.18
47.5	7.23	7.14	7.05	6.98	6.91	6.88	6.84	6.83	6.82
50.0	6.92	6.82	6.71	6.63	6.54	6.50	6.46	6.45	6.43
52.5	6.61	6.49	6.36	6.27	6.17	6.12	6.06	6.05	6.03
55.0	6.29	6.15	6.00	5.89	5.78	5.72	5.65	5.63	5.61
57.5	5.96	5.80	5.64	5.51	5.38	5.30	5.22	5.21	5.19
60.0	5.64	5.46	5.28	5.14	4.98	4.89	4.79	4.77	4.75
62.5	5.32	5.12	4.92	4.75	4.57	4.47	4.35	4.32	4.29
65.0	5.00	4.78	4.56	4.36	4.16	4.03	3.89	3.86	3.82
67.5	4.70	4.45	4.20	3.98	3.75	3.59	3.43	3.38	3.33
70.0	4.41	4.14	3.86	3.60	3.34	3.16	2.97	2.91	2.85
72.5	4.14	3.83	3.53	3.24	2.95	2.74	2.52	2.45	2.37
75.0	3.88	3.56	3.23	2.91	2.58	2.34	2.08	1.99	1.89
77.5	3.66	3.31	2.96	2.60	2.24	1.96	1.67	1.55	1.43
80.0	3.48	3.11	2.73	2.34	1.95	1.62	1.29	1.15	1.01
82.5	3.34	2.95	2.55	2.13	1.71	1.34	0.97	0.79	0.62
85.0	3.11	2.76	2.41	1.97	1.53	1.13	0.71	0.51	0.30
87.5	2.59	2.29	1.99	1.66	1.32	0.93	0.54	0.31	0.09
90.0	1.92	1.65	1.37	1.09	0.80	0.54	0.27	0.15	0.02
95.0	0.62	0.40	0.17	0.11	0.05	0.03	0.00	0.00	0.00
100.0	0.04	0.03	0.03	0.02	0.02	0.02	0.00	0.00	0.00
105.0	0.02	0.02	0.02	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.)

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	3.84	N.A.	9.90
0-30	8.23	N.A.	21.20
0-40	13.65	N.A.	35.20
0-60	25.25	N.A.	65.10
0-80	34.55	N.A.	89.10
0-90	37.68	N.A.	97.20
10-90	36.69	N.A.	94.60
20-40	9.81	N.A.	25.30
20-50	15.68	N.A.	40.40
40-70	16.70	N.A.	43.10
60-80	9.29	N.A.	24.00
70-80	4.20	N.A.	10.80
80-90	3.13	N.A.	8.10
90-110	1.10	N.A.	2.80
90-120	1.10	N.A.	2.80
90-130	1.10	N.A.	2.80
90-150	1.10	N.A.	2.80
90-180	1.10	N.A.	2.80
110-180	0.00	N.A.	0.00
0-180	38.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.99
10-20	2.85
20-30	4.38
30-40	5.42
40-50	5.87
50-60	5.73
60-70	5.09
70-80	4.20
80-90	3.13
90-100	1.07
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

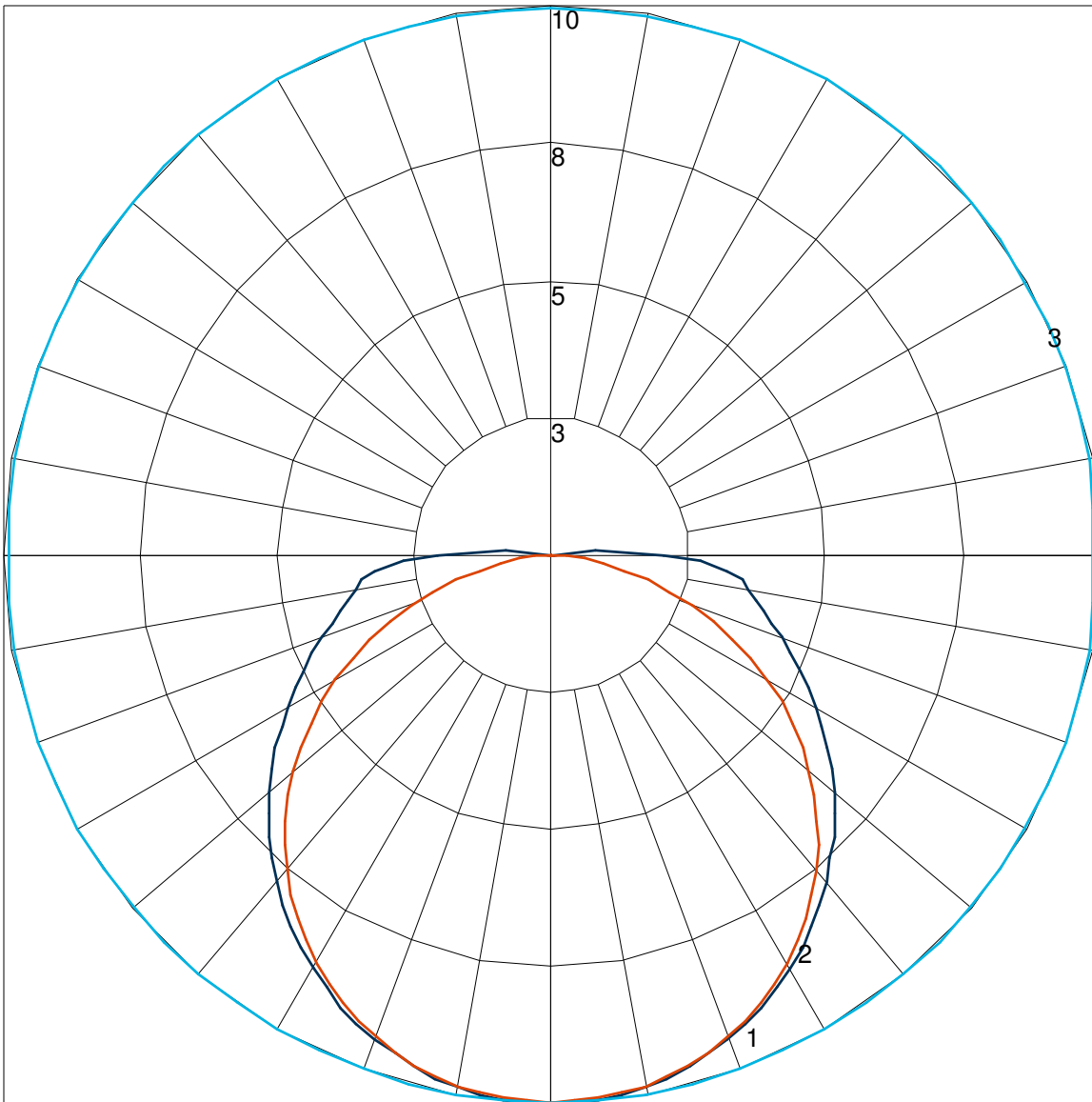
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	95	90	86	91	86	83	86	83	80	82	79	77	74
2	94	84	76	69	90	82	74	68	77	71	66	74	68	64	70	66	62	59
3	85	73	63	56	82	71	62	55	67	60	54	64	58	53	61	56	51	49
4	77	64	54	47	74	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	33	30
7	60	46	37	30	58	45	36	30	43	35	30	41	34	29	40	34	29	27
8	56	42	33	27	54	41	33	27	39	32	26	38	31	26	37	30	26	24
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	33	26	21	32	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 10.46 Located At Horizontal Angle = 45, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)