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## IES INDOOR REPORT

### PHOTOMETRIC FILENAME : SL-PRO-24DC-02-30-01.IES

#### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3909  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/17/2019 6:35:43 AM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-02-30-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (3000K)  
[\_ELECTRICALS] 24.02 VDC, 0.09 A, 1.00 PF

#### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	55
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	27
Total Luminaire Watts	2.04
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	1686	1759	2394
55	1580	1602	2271
65	1511	1464	2044
75	1509	1379	1559
85	1498	1412	575

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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>	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90
<b>2.5</b>	14.94	14.92	14.90	14.90	14.89	14.90	14.89	14.90	14.89	14.89
<b>5.0</b>	14.90	14.88	14.86	14.86	14.85	14.86	14.86	14.86	14.86	14.86
<b>7.5</b>	14.82	14.81	14.79	14.79	14.78	14.79	14.80	14.80	14.79	14.79
<b>10.0</b>	14.73	14.72	14.70	14.70	14.70	14.71	14.70	14.70	14.70	14.70
<b>12.5</b>	14.60	14.60	14.58	14.59	14.59	14.59	14.58	14.58	14.57	14.57
<b>15.0</b>	14.47	14.46	14.45	14.45	14.44	14.44	14.44	14.43	14.42	14.42
<b>17.5</b>	14.30	14.29	14.28	14.29	14.28	14.28	14.27	14.26	14.25	14.24
<b>20.0</b>	14.11	14.11	14.10	14.10	14.09	14.09	14.07	14.07	14.05	14.04
<b>22.5</b>	13.92	13.91	13.90	13.89	13.89	13.88	13.86	13.85	13.83	13.81
<b>25.0</b>	13.71	13.69	13.68	13.67	13.66	13.64	13.62	13.61	13.59	13.56
<b>27.5</b>	13.48	13.47	13.45	13.44	13.42	13.40	13.37	13.34	13.31	13.29
<b>30.0</b>	13.24	13.22	13.21	13.19	13.17	13.14	13.11	13.07	13.03	12.99
<b>32.5</b>	12.99	12.97	12.95	12.92	12.90	12.86	12.82	12.77	12.73	12.68
<b>35.0</b>	12.72	12.70	12.68	12.65	12.62	12.57	12.52	12.47	12.41	12.35
<b>37.5</b>	12.44	12.42	12.39	12.36	12.32	12.26	12.21	12.14	12.07	12.00
<b>40.0</b>	12.15	12.13	12.11	12.06	12.01	11.94	11.88	11.80	11.72	11.64
<b>42.5</b>	11.85	11.82	11.80	11.75	11.69	11.62	11.54	11.45	11.35	11.25
<b>45.0</b>	11.55	11.52	11.49	11.43	11.37	11.28	11.19	11.09	10.97	10.85
<b>47.5</b>	11.24	11.20	11.17	11.10	11.04	10.94	10.83	10.71	10.58	10.45
<b>50.0</b>	10.92	10.88	10.85	10.78	10.70	10.58	10.46	10.32	10.18	10.02
<b>52.5</b>	10.60	10.56	10.52	10.44	10.35	10.23	10.09	9.94	9.77	9.60
<b>55.0</b>	10.28	10.24	10.20	10.10	10.01	9.87	9.72	9.54	9.36	9.16
<b>57.5</b>	9.96	9.92	9.87	9.77	9.66	9.51	9.35	9.15	8.94	8.73
<b>60.0</b>	9.64	9.60	9.55	9.44	9.33	9.16	8.98	8.76	8.54	8.29
<b>62.5</b>	9.32	9.27	9.22	9.11	9.00	8.81	8.62	8.38	8.14	7.87
<b>65.0</b>	9.02	8.96	8.91	8.79	8.68	8.47	8.26	8.01	7.75	7.46
<b>67.5</b>	8.71	8.66	8.60	8.48	8.35	8.14	7.93	7.65	7.38	7.05
<b>70.0</b>	8.42	8.36	8.31	8.18	8.04	7.82	7.60	7.31	7.01	6.66
<b>72.5</b>	8.16	8.10	8.04	7.90	7.75	7.52	7.30	6.99	6.68	6.30
<b>75.0</b>	7.92	7.86	7.80	7.65	7.50	7.27	7.02	6.69	6.36	5.95
<b>77.5</b>	7.73	7.67	7.60	7.45	7.29	7.05	6.79	6.44	6.09	5.66
<b>80.0</b>	7.54	7.49	7.43	7.28	7.12	6.86	6.61	6.24	5.87	5.42
<b>82.5</b>	7.14	7.09	7.04	6.91	6.78	6.57	6.34	6.02	5.69	5.23
<b>85.0</b>	6.54	6.49	6.43	6.31	6.18	5.98	5.77	5.48	5.19	4.81
<b>87.5</b>	5.70	5.65	5.60	5.48	5.35	5.14	4.94	4.67	4.39	4.04
<b>90.0</b>	4.72	4.67	4.62	4.50	4.37	4.17	3.96	3.69	3.42	3.08
<b>95.0</b>	3.05	3.00	2.95	2.80	2.65	2.42	2.19	1.88	1.57	1.23
<b>100.0</b>	0.50	0.47	0.43	0.34	0.24	0.17	0.10	0.08	0.06	0.06
<b>105.0</b>	0.00	0.00	0.00	0.02	0.02	0.03	0.03	0.03	0.03	0.03
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02
<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. 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	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90	14.90
2.5	14.89	14.89	14.88	14.88	14.88	14.88	14.87	14.88	14.88
5.0	14.85	14.85	14.84	14.84	14.84	14.84	14.83	14.84	14.84
7.5	14.79	14.78	14.78	14.77	14.77	14.76	14.76	14.76	14.76
10.0	14.69	14.69	14.67	14.67	14.67	14.67	14.66	14.66	14.66
12.5	14.56	14.56	14.55	14.55	14.54	14.53	14.53	14.53	14.53
15.0	14.41	14.40	14.39	14.39	14.37	14.37	14.37	14.37	14.36
17.5	14.23	14.22	14.21	14.20	14.19	14.19	14.18	14.19	14.18
20.0	14.02	14.01	13.99	13.99	13.97	13.97	13.97	13.97	13.96
22.5	13.80	13.78	13.76	13.75	13.73	13.73	13.72	13.72	13.72
25.0	13.53	13.52	13.50	13.48	13.46	13.46	13.45	13.45	13.45
27.5	13.26	13.24	13.21	13.19	13.17	13.16	13.15	13.14	13.14
30.0	12.95	12.93	12.90	12.87	12.85	12.84	12.82	12.82	12.81
32.5	12.63	12.59	12.55	12.52	12.49	12.48	12.46	12.46	12.45
35.0	12.29	12.24	12.19	12.15	12.11	12.10	12.08	12.07	12.06
37.5	11.92	11.86	11.79	11.75	11.71	11.69	11.67	11.66	11.66
40.0	11.54	11.47	11.39	11.34	11.28	11.26	11.23	11.22	11.21
42.5	11.15	11.05	10.96	10.89	10.82	10.79	10.76	10.75	10.74
45.0	10.73	10.62	10.51	10.43	10.35	10.31	10.27	10.26	10.25
47.5	10.31	10.18	10.04	9.94	9.84	9.80	9.75	9.74	9.72
50.0	9.87	9.72	9.56	9.44	9.33	9.27	9.21	9.19	9.18
52.5	9.41	9.25	9.07	8.93	8.79	8.72	8.64	8.63	8.61
55.0	8.96	8.76	8.56	8.41	8.24	8.16	8.07	8.04	8.02
57.5	8.51	8.28	8.05	7.87	7.69	7.58	7.47	7.45	7.42
60.0	8.04	7.79	7.54	7.34	7.12	7.00	6.87	6.83	6.79
62.5	7.59	7.32	7.03	6.79	6.55	6.39	6.23	6.19	6.14
65.0	7.15	6.84	6.52	6.25	5.96	5.77	5.58	5.53	5.47
67.5	6.72	6.37	6.02	5.70	5.37	5.15	4.92	4.85	4.78
70.0	6.30	5.92	5.53	5.16	4.79	4.53	4.26	4.17	4.08
72.5	5.91	5.48	5.05	4.64	4.23	3.92	3.61	3.50	3.39
75.0	5.55	5.09	4.62	4.16	3.70	3.34	2.98	2.84	2.71
77.5	5.22	4.72	4.22	3.72	3.21	2.80	2.39	2.22	2.06
80.0	4.96	4.42	3.88	3.34	2.79	2.32	1.85	1.65	1.44
82.5	4.77	4.20	3.63	3.04	2.44	1.91	1.38	1.13	0.89
85.0	4.43	3.93	3.43	2.81	2.18	1.60	1.02	0.73	0.43
87.5	3.68	3.26	2.84	2.36	1.88	1.33	0.77	0.44	0.12
90.0	2.74	2.35	1.96	1.55	1.15	0.77	0.38	0.20	0.00
95.0	0.88	0.56	0.24	0.15	0.07	0.05	0.02	0.02	0.00
100.0	0.05	0.05	0.04	0.03	0.02	0.02	0.00	0.00	0.00
105.0	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00
110.0	0.02	0.02	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	5.48	N.A.	9.90
0-30	11.74	N.A.	21.20
0-40	19.48	N.A.	35.20
0-60	36.05	N.A.	65.10
0-80	49.34	N.A.	89.10
0-90	53.81	N.A.	97.20
10-90	52.39	N.A.	94.60
20-40	14.00	N.A.	25.30
20-50	22.39	N.A.	40.40
40-70	23.85	N.A.	43.10
60-80	13.28	N.A.	24.00
70-80	6.00	N.A.	10.80
80-90	4.47	N.A.	8.10
90-110	1.58	N.A.	2.90
90-120	1.58	N.A.	2.90
90-130	1.58	N.A.	2.90
90-150	1.58	N.A.	2.90
90-180	1.58	N.A.	2.90
110-180	0.00	N.A.	0.00
0-180	55.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1.41
10-20	4.07
20-30	6.26
30-40	7.74
40-50	8.39
50-60	8.18
60-70	7.28
70-80	6.00
80-90	4.47
90-100	1.53
100-110	0.05
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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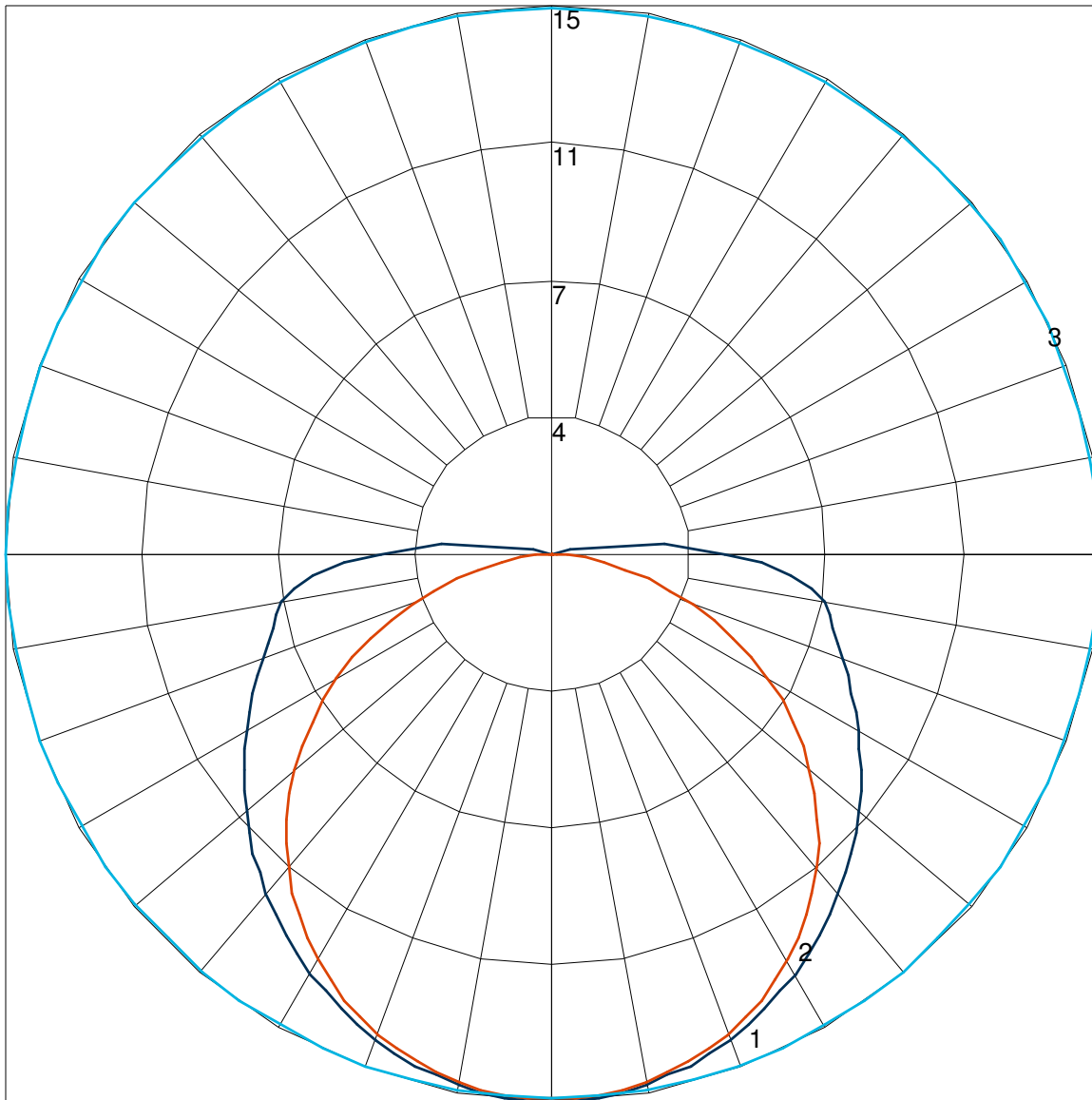
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	106	99	94	89	102	97	92	87	92	87	84	87	84	81	83	80	78	75
2	95	85	77	70	92	83	75	69	78	72	67	75	69	65	71	67	63	60
3	86	74	64	57	83	72	63	56	68	61	55	65	59	53	62	57	52	49
4	78	65	55	47	75	63	54	47	60	52	46	57	50	45	55	49	44	41
5	72	57	48	40	69	56	47	40	54	45	39	51	44	38	49	43	38	35
6	66	52	42	35	64	50	41	35	48	40	34	46	39	33	44	38	33	31
7	61	47	37	31	59	46	37	30	44	36	30	42	35	29	40	34	29	27
8	57	42	33	27	55	42	33	27	40	32	27	38	31	26	37	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	35	28	24	34	28	23	21
10	50	36	27	22	48	35	27	22	34	27	22	33	26	21	32	26	21	19

POLAR GRAPH



Maximum Candela = 14.94 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.)