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IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-PRO-24DC-02-27-01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3910
[_ECN] 3935
[TESTLAB] Tempo LLC
[ISSUEDATE] 9/17/2019 10:43:52 AM
[MANUFAC] Tempo LLC
[LUMCAT] SL-PRO-24DC-02-27-01
[LUMINAIRE] Aluminum housing with opal lens
[LAMP] Fifty-four (54) white LEDs (2700K)
[_ELECTRICALS] 24.01 VDC, 0.09 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	53
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	26
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	1625	1694	2303
55	1524	1544	2183
65	1458	1409	1958
75	1462	1332	1496
85	1447	1365	548

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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>
0.0	14.36	14.36	14.36	14.36	14.36	14.36	14.36	14.36	14.36	14.36
2.5	14.39	14.38	14.36	14.36	14.35	14.35	14.35	14.35	14.35	14.35
5.0	14.34	14.34	14.33	14.33	14.32	14.32	14.32	14.32	14.31	14.32
7.5	14.28	14.27	14.26	14.26	14.26	14.26	14.26	14.26	14.25	14.25
10.0	14.18	14.18	14.18	14.17	14.17	14.17	14.17	14.17	14.16	14.15
12.5	14.06	14.06	14.06	14.06	14.06	14.06	14.05	14.05	14.04	14.04
15.0	13.93	13.93	13.93	13.93	13.93	13.92	13.91	13.91	13.90	13.89
17.5	13.77	13.77	13.77	13.77	13.77	13.76	13.75	13.74	13.72	13.72
20.0	13.59	13.59	13.59	13.59	13.59	13.57	13.56	13.55	13.53	13.52
22.5	13.40	13.40	13.40	13.40	13.38	13.37	13.35	13.33	13.32	13.30
25.0	13.19	13.19	13.19	13.18	13.16	13.14	13.12	13.10	13.08	13.06
27.5	12.98	12.98	12.98	12.96	12.93	12.91	12.88	12.85	12.82	12.79
30.0	12.75	12.75	12.74	12.71	12.69	12.66	12.62	12.58	12.54	12.51
32.5	12.51	12.50	12.49	12.46	12.43	12.40	12.36	12.31	12.26	12.21
35.0	12.25	12.24	12.23	12.19	12.16	12.11	12.06	12.01	11.95	11.89
37.5	11.98	11.97	11.96	11.92	11.87	11.82	11.76	11.69	11.62	11.55
40.0	11.71	11.69	11.67	11.63	11.58	11.52	11.45	11.37	11.28	11.20
42.5	11.43	11.41	11.39	11.33	11.27	11.20	11.11	11.03	10.93	10.83
45.0	11.13	11.11	11.08	11.02	10.96	10.87	10.78	10.68	10.56	10.45
47.5	10.83	10.80	10.77	10.71	10.64	10.54	10.44	10.32	10.19	10.06
50.0	10.52	10.50	10.47	10.39	10.31	10.20	10.09	9.95	9.80	9.66
52.5	10.22	10.19	10.16	10.07	9.98	9.86	9.73	9.57	9.41	9.25
55.0	9.92	9.89	9.85	9.76	9.66	9.52	9.38	9.20	9.02	8.83
57.5	9.60	9.57	9.53	9.44	9.33	9.17	9.01	8.83	8.63	8.41
60.0	9.30	9.27	9.22	9.12	9.00	8.83	8.66	8.46	8.24	7.99
62.5	9.01	8.96	8.91	8.80	8.69	8.51	8.32	8.09	7.85	7.58
65.0	8.70	8.66	8.62	8.52	8.41	8.20	7.98	7.73	7.47	7.18
67.5	8.43	8.38	8.33	8.23	8.12	7.89	7.65	7.38	7.11	6.79
70.0	8.14	8.09	8.04	7.92	7.80	7.57	7.34	7.06	6.77	6.42
72.5	7.88	7.83	7.77	7.63	7.49	7.27	7.04	6.75	6.44	6.07
75.0	7.67	7.61	7.54	7.40	7.25	7.02	6.78	6.46	6.14	5.75
77.5	7.46	7.41	7.35	7.20	7.05	6.81	6.56	6.23	5.89	5.46
80.0	7.30	7.24	7.18	7.04	6.88	6.64	6.39	6.04	5.68	5.24
82.5	6.91	6.87	6.81	6.69	6.56	6.35	6.14	5.82	5.50	5.05
85.0	6.32	6.28	6.23	6.11	5.99	5.79	5.59	5.30	5.01	4.65
87.5	5.51	5.47	5.42	5.30	5.18	4.99	4.79	4.52	4.24	3.91
90.0	4.56	4.52	4.47	4.35	4.23	4.04	3.84	3.58	3.31	2.99
95.0	2.96	2.92	2.86	2.72	2.57	2.35	2.12	1.83	1.53	1.19
100.0	0.49	0.46	0.43	0.34	0.24	0.17	0.10	0.08	0.06	0.06
105.0	0.00	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
110.0	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02
115.0	0.00	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	0.00
125.0	0.00	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	0.00
135.0	0.00	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	0.00
145.0	0.00	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	0.00
155.0	0.00	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	0.00
165.0	0.00	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	0.00
175.0	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	14.36	14.36	14.36	14.36	14.36	14.36	14.36	14.36	14.36
2.5	14.35	14.35	14.34	14.34	14.34	14.34	14.33	14.33	14.33
5.0	14.32	14.32	14.31	14.31	14.30	14.30	14.30	14.30	14.29
7.5	14.25	14.25	14.24	14.24	14.23	14.22	14.22	14.22	14.22
10.0	14.15	14.15	14.14	14.14	14.13	14.13	14.12	14.12	14.11
12.5	14.03	14.02	14.01	14.01	14.00	13.99	13.99	13.99	13.99
15.0	13.88	13.87	13.86	13.86	13.85	13.84	13.83	13.83	13.83
17.5	13.71	13.69	13.68	13.68	13.67	13.66	13.65	13.65	13.65
20.0	13.50	13.49	13.48	13.47	13.45	13.45	13.44	13.45	13.44
22.5	13.28	13.27	13.25	13.24	13.22	13.22	13.21	13.21	13.20
25.0	13.04	13.02	12.99	12.98	12.97	12.96	12.94	12.94	12.94
27.5	12.77	12.74	12.71	12.70	12.68	12.67	12.65	12.65	12.65
30.0	12.47	12.44	12.41	12.39	12.36	12.35	12.33	12.34	12.33
32.5	12.16	12.12	12.08	12.06	12.03	12.01	11.99	11.98	11.98
35.0	11.83	11.78	11.73	11.70	11.66	11.64	11.62	11.61	11.60
37.5	11.47	11.41	11.35	11.31	11.27	11.25	11.22	11.22	11.21
40.0	11.11	11.04	10.96	10.91	10.86	10.83	10.80	10.79	10.78
42.5	10.73	10.64	10.55	10.48	10.41	10.38	10.35	10.34	10.33
45.0	10.33	10.22	10.11	10.03	9.96	9.92	9.88	9.87	9.86
47.5	9.92	9.80	9.67	9.57	9.48	9.43	9.38	9.37	9.35
50.0	9.50	9.36	9.21	9.09	8.98	8.92	8.86	8.84	8.82
52.5	9.07	8.90	8.73	8.60	8.46	8.39	8.32	8.30	8.27
55.0	8.63	8.44	8.24	8.09	7.93	7.85	7.76	7.73	7.71
57.5	8.19	7.97	7.75	7.58	7.39	7.29	7.18	7.15	7.12
60.0	7.74	7.50	7.26	7.06	6.85	6.72	6.60	6.56	6.52
62.5	7.31	7.04	6.77	6.53	6.29	6.14	5.99	5.94	5.90
65.0	6.89	6.59	6.28	6.00	5.72	5.54	5.36	5.30	5.24
67.5	6.47	6.13	5.79	5.48	5.16	4.94	4.73	4.66	4.59
70.0	6.08	5.70	5.32	4.96	4.61	4.35	4.09	4.01	3.92
72.5	5.70	5.29	4.86	4.47	4.07	3.77	3.47	3.37	3.26
75.0	5.35	4.90	4.44	4.00	3.56	3.21	2.86	2.73	2.60
77.5	5.04	4.56	4.07	3.59	3.09	2.69	2.29	2.14	1.98
80.0	4.79	4.27	3.75	3.22	2.69	2.23	1.78	1.58	1.39
82.5	4.60	4.05	3.50	2.93	2.36	1.85	1.33	1.09	0.85
85.0	4.29	3.81	3.32	2.72	2.11	1.55	0.98	0.70	0.41
87.5	3.57	3.16	2.75	2.28	1.81	1.28	0.74	0.43	0.12
90.0	2.66	2.28	1.90	1.50	1.11	0.75	0.38	0.20	0.02
95.0	0.86	0.55	0.23	0.15	0.06	0.05	0.02	0.02	0.00
100.0	0.06	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.)

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	5.28	N.A.	9.90
0-30	11.31	N.A.	21.20
0-40	18.76	N.A.	35.10
0-60	34.73	N.A.	65.00
0-80	47.54	N.A.	89.00
0-90	51.87	N.A.	97.10
10-90	50.50	N.A.	94.60
20-40	13.48	N.A.	25.20
20-50	21.56	N.A.	40.40
40-70	22.98	N.A.	43.00
60-80	12.81	N.A.	24.00
70-80	5.79	N.A.	10.80
80-90	4.32	N.A.	8.10
90-110	1.53	N.A.	2.90
90-120	1.54	N.A.	2.90
90-130	1.54	N.A.	2.90
90-150	1.54	N.A.	2.90
90-180	1.54	N.A.	2.90
110-180	0.00	N.A.	0.00
0-180	53.40	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

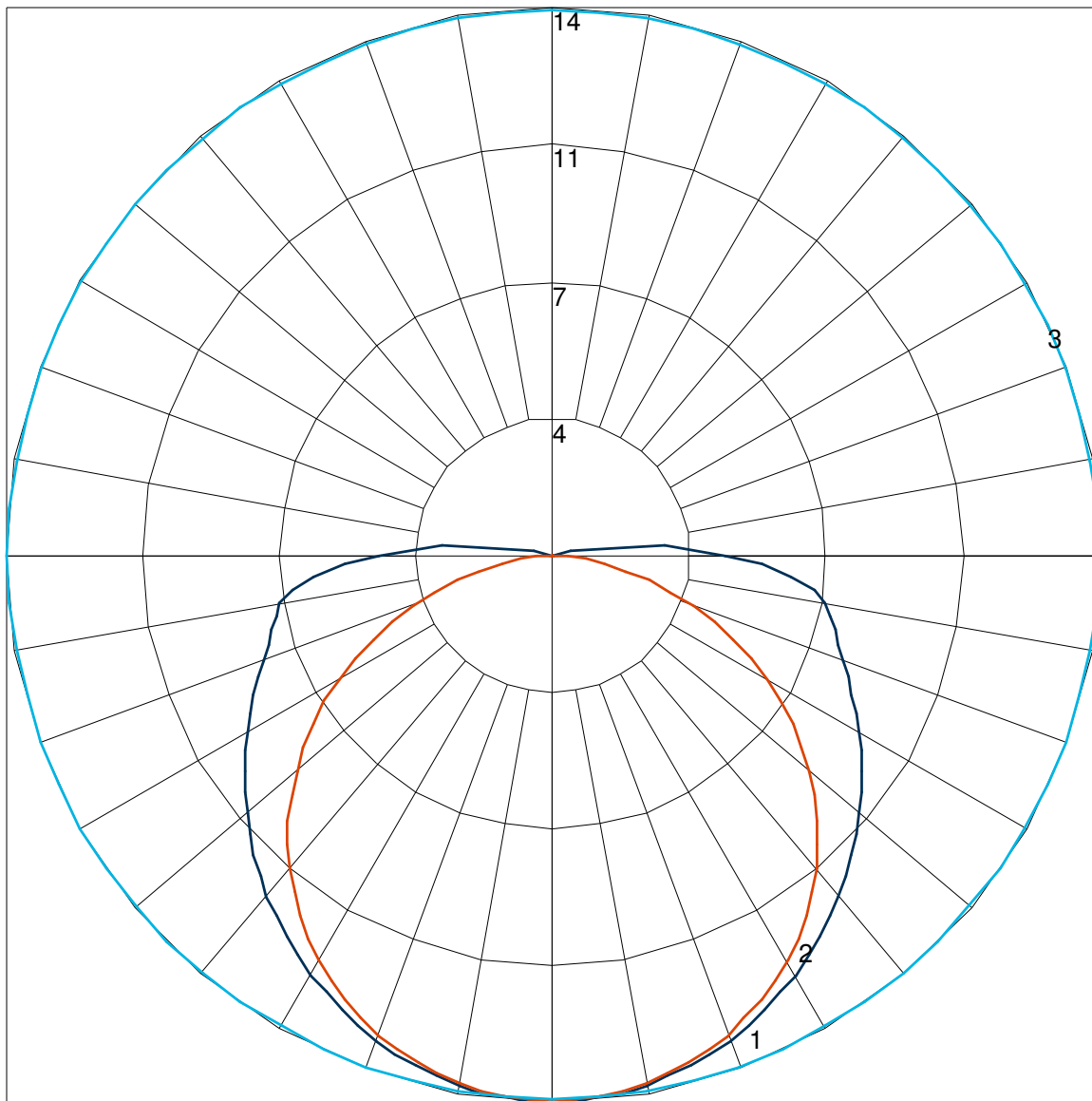
Zone	Lumens
0-10	1.36
10-20	3.92
20-30	6.03
30-40	7.46
40-50	8.08
50-60	7.89
60-70	7.02
70-80	5.79
80-90	4.32
90-100	1.49
100-110	0.05
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SL-PRO-24DC-02-27-01.IES****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	88	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 = 14.39 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.)