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IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-PRO-24DC-02-35-01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3908
[_ECN] 3935
[TESTLAB] Tempo LLC
[ISSUEDATE] 9/16/2019 3:01:35 PM
[MANUFAC] Tempo LLC
[LUMCAT] SL-PRO-24DC-02-35-01
[LUMINAIRE] Aluminum housing with opal lens
[LAMP] Fifty-four (54) white LEDs (3500K)
[_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	2.05
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	1672	1748	2373
55	1566	1591	2251
65	1498	1454	2026
75	1500	1374	1548
85	1491	1406	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>
0.0	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80
2.5	14.81	14.81	14.81	14.81	14.80	14.81	14.80	14.80	14.80	14.79
5.0	14.76	14.77	14.76	14.77	14.76	14.76	14.76	14.76	14.76	14.76
7.5	14.69	14.70	14.70	14.70	14.70	14.70	14.69	14.70	14.69	14.69
10.0	14.59	14.60	14.61	14.61	14.61	14.61	14.61	14.61	14.60	14.60
12.5	14.47	14.49	14.49	14.50	14.50	14.49	14.49	14.49	14.48	14.48
15.0	14.33	14.34	14.35	14.36	14.36	14.35	14.34	14.34	14.32	14.32
17.5	14.16	14.18	14.19	14.19	14.19	14.19	14.17	14.17	14.16	14.15
20.0	13.99	14.00	14.01	14.01	14.00	13.99	13.98	13.97	13.96	13.95
22.5	13.79	13.80	13.81	13.81	13.80	13.79	13.77	13.75	13.74	13.72
25.0	13.57	13.59	13.60	13.59	13.57	13.56	13.53	13.52	13.50	13.47
27.5	13.35	13.36	13.37	13.36	13.33	13.31	13.28	13.26	13.23	13.20
30.0	13.11	13.12	13.13	13.11	13.09	13.05	13.02	12.98	12.94	12.91
32.5	12.87	12.87	12.87	12.85	12.82	12.78	12.73	12.69	12.65	12.60
35.0	12.60	12.60	12.60	12.57	12.54	12.49	12.44	12.38	12.33	12.27
37.5	12.33	12.33	12.32	12.29	12.25	12.19	12.13	12.06	11.99	11.92
40.0	12.04	12.03	12.02	11.99	11.94	11.88	11.80	11.73	11.64	11.56
42.5	11.75	11.74	11.73	11.68	11.63	11.55	11.47	11.38	11.28	11.17
45.0	11.45	11.44	11.42	11.36	11.30	11.21	11.12	11.01	10.90	10.78
47.5	11.14	11.12	11.11	11.04	10.98	10.87	10.76	10.64	10.52	10.38
50.0	10.82	10.81	10.78	10.71	10.63	10.52	10.39	10.25	10.11	9.96
52.5	10.51	10.49	10.46	10.38	10.30	10.17	10.03	9.87	9.71	9.53
55.0	10.19	10.16	10.14	10.05	9.96	9.81	9.66	9.49	9.30	9.10
57.5	9.88	9.85	9.82	9.72	9.62	9.46	9.29	9.09	8.89	8.66
60.0	9.56	9.53	9.49	9.39	9.28	9.11	8.93	8.71	8.49	8.24
62.5	9.24	9.20	9.17	9.07	8.97	8.77	8.57	8.33	8.09	7.83
65.0	8.94	8.91	8.86	8.76	8.65	8.44	8.21	7.97	7.71	7.41
67.5	8.64	8.60	8.56	8.44	8.32	8.10	7.88	7.61	7.34	7.02
70.0	8.35	8.31	8.27	8.14	8.00	7.79	7.57	7.28	6.99	6.63
72.5	8.09	8.05	8.00	7.86	7.72	7.50	7.27	6.96	6.65	6.27
75.0	7.87	7.83	7.78	7.63	7.48	7.24	7.00	6.67	6.33	5.93
77.5	7.68	7.63	7.57	7.42	7.27	7.02	6.77	6.42	6.07	5.63
80.0	7.50	7.45	7.41	7.26	7.10	6.84	6.58	6.22	5.85	5.40
82.5	7.11	7.07	7.02	6.90	6.76	6.55	6.32	6.00	5.67	5.21
85.0	6.51	6.46	6.42	6.30	6.17	5.96	5.75	5.46	5.17	4.79
87.5	5.67	5.63	5.58	5.46	5.33	5.13	4.92	4.65	4.37	4.02
90.0	4.68	4.65	4.61	4.48	4.36	4.16	3.95	3.68	3.40	3.07
95.0	3.04	2.99	2.94	2.79	2.65	2.41	2.17	1.87	1.56	1.22
100.0	0.50	0.47	0.43	0.34	0.24	0.17	0.09	0.08	0.06	0.06
105.0	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
110.0	0.00	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	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	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80
2.5	14.79	14.79	14.78	14.78	14.77	14.77	14.76	14.76	14.76
5.0	14.75	14.75	14.74	14.75	14.74	14.74	14.72	14.72	14.72
7.5	14.69	14.69	14.68	14.67	14.66	14.66	14.65	14.65	14.65
10.0	14.59	14.59	14.58	14.57	14.56	14.56	14.55	14.55	14.54
12.5	14.46	14.46	14.45	14.44	14.43	14.43	14.42	14.42	14.42
15.0	14.31	14.31	14.29	14.29	14.27	14.27	14.26	14.26	14.26
17.5	14.13	14.12	14.11	14.10	14.09	14.08	14.07	14.08	14.07
20.0	13.93	13.92	13.91	13.89	13.88	13.87	13.86	13.85	13.85
22.5	13.70	13.69	13.67	13.66	13.64	13.63	13.61	13.61	13.61
25.0	13.45	13.43	13.40	13.39	13.37	13.36	13.35	13.34	13.33
27.5	13.17	13.14	13.12	13.10	13.08	13.06	13.05	13.04	13.04
30.0	12.87	12.84	12.81	12.78	12.75	12.74	12.72	12.71	12.70
32.5	12.55	12.51	12.47	12.44	12.41	12.39	12.37	12.36	12.35
35.0	12.20	12.16	12.10	12.07	12.03	12.01	11.98	11.98	11.97
37.5	11.84	11.78	11.71	11.67	11.63	11.60	11.57	11.57	11.56
40.0	11.46	11.39	11.31	11.25	11.20	11.17	11.14	11.13	11.12
42.5	11.07	10.97	10.88	10.81	10.74	10.71	10.68	10.67	10.65
45.0	10.66	10.55	10.43	10.36	10.27	10.23	10.18	10.17	10.16
47.5	10.23	10.11	9.97	9.88	9.78	9.73	9.67	9.66	9.64
50.0	9.79	9.65	9.49	9.38	9.26	9.20	9.13	9.12	9.10
52.5	9.35	9.18	9.00	8.87	8.72	8.65	8.58	8.56	8.53
55.0	8.90	8.70	8.50	8.34	8.18	8.09	8.00	7.98	7.95
57.5	8.44	8.22	8.00	7.82	7.63	7.53	7.42	7.39	7.35
60.0	7.99	7.74	7.50	7.29	7.07	6.94	6.81	6.77	6.73
62.5	7.55	7.28	7.00	6.75	6.49	6.34	6.18	6.14	6.09
65.0	7.11	6.80	6.48	6.20	5.91	5.72	5.53	5.47	5.42
67.5	6.69	6.33	5.98	5.65	5.33	5.10	4.87	4.81	4.74
70.0	6.27	5.88	5.48	5.12	4.75	4.49	4.22	4.14	4.05
72.5	5.88	5.45	5.02	4.61	4.20	3.89	3.58	3.47	3.36
75.0	5.52	5.06	4.59	4.13	3.67	3.32	2.95	2.82	2.69
77.5	5.19	4.70	4.20	3.70	3.19	2.78	2.36	2.21	2.04
80.0	4.94	4.41	3.87	3.32	2.77	2.31	1.83	1.63	1.43
82.5	4.74	4.18	3.61	3.02	2.43	1.90	1.37	1.13	0.88
85.0	4.41	3.92	3.42	2.80	2.17	1.60	1.01	0.72	0.43
87.5	3.67	3.25	2.82	2.34	1.87	1.32	0.76	0.44	0.12
90.0	2.73	2.35	1.95	1.55	1.14	0.76	0.38	0.20	0.02
95.0	0.87	0.55	0.23	0.15	0.06	0.04	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	0.02	0.02	0.02	0.02	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	5.45	N.A.	9.90
0-30	11.66	N.A.	21.20
0-40	19.35	N.A.	35.20
0-60	35.81	N.A.	65.10
0-80	49.01	N.A.	89.10
0-90	53.47	N.A.	97.20
10-90	52.06	N.A.	94.60
20-40	13.90	N.A.	25.30
20-50	22.23	N.A.	40.40
40-70	23.69	N.A.	43.00
60-80	13.21	N.A.	24.00
70-80	5.97	N.A.	10.80
80-90	4.45	N.A.	8.10
90-110	1.57	N.A.	2.90
90-120	1.57	N.A.	2.90
90-130	1.57	N.A.	2.90
90-150	1.57	N.A.	2.90
90-180	1.57	N.A.	2.90
110-180	0.00	N.A.	0.00
0-180	55.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.40
10-20	4.04
20-30	6.21
30-40	7.69
40-50	8.33
50-60	8.13
60-70	7.23
70-80	5.97
80-90	4.45
90-100	1.52
100-110	0.04
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

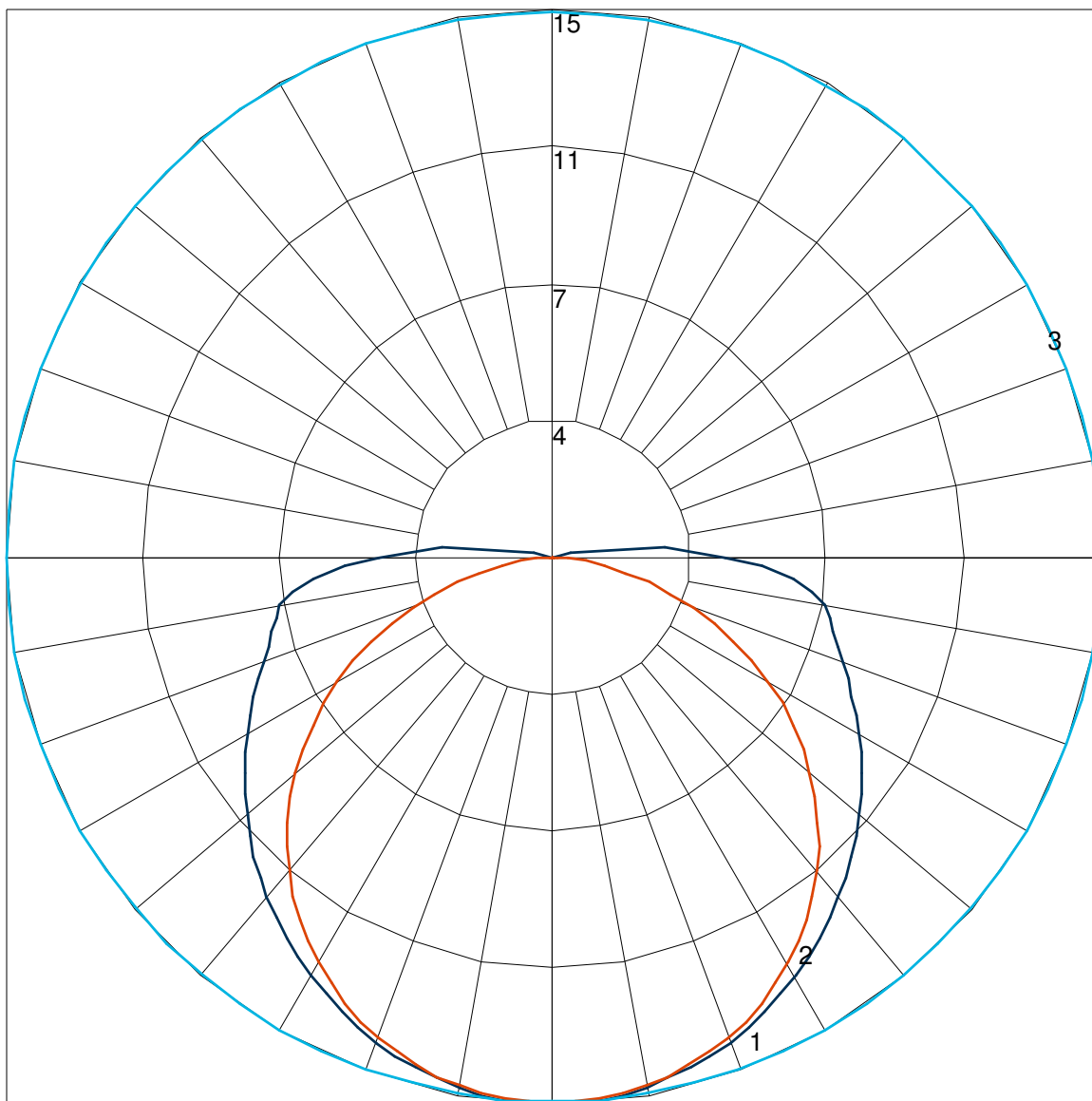
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	104	104	104	99	99	99	97
1	105	99	93	88	102	96	91	86	91	87	83	87	83	80	82	80	77	75
2	94	84	76	69	91	82	75	68	78	72	66	74	69	64	71	66	62	60
3	85	73	64	56	82	71	63	56	68	60	54	64	58	53	61	56	52	49
4	78	64	55	47	75	63	54	47	60	52	46	57	50	45	54	48	44	41
5	71	57	47	40	69	56	47	40	53	45	39	51	44	38	49	42	38	35
6	66	51	42	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	55	41	33	27	40	32	26	38	31	26	37	30	26	24
9	53	39	30	24	51	38	30	24	36	29	24	35	28	23	34	28	23	21
10	49	36	27	22	48	35	27	22	34	26	21	33	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 14.81 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.)