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IES INDOOR REPORT PHOTOMETRIC FILENAME : SL-PRO-24DC-04-20-01.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3905
[_ECN] 3935
[TESTLAB] Tempo LLC
[ISSUEDATE] 9/13/2019 10:24:32 AM
[MANUFAC] Tempo LLC
[LUMCAT] SL-PRO-24DC-04-20-01
[LUMINAIRE] Aluminum housing with opal lens
[LAMP] Fifty-four (54) white LEDs (2000K)
[_ELECTRICALS] 24.00 VDC, 0.16 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	80
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	3.96
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	2440	2537	3441
55	2293	2314	3267
65	2202	2118	2934
75	2201	1999	2261
85	2180	2058	829

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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	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51
2.5	21.58	21.56	21.53	21.52	21.51	21.51	21.51	21.50	21.49	21.48
5.0	21.51	21.50	21.48	21.47	21.45	21.45	21.44	21.44	21.43	21.42
7.5	21.42	21.40	21.38	21.37	21.35	21.35	21.34	21.33	21.32	21.31
10.0	21.28	21.26	21.25	21.24	21.22	21.22	21.21	21.20	21.19	21.18
12.5	21.10	21.09	21.08	21.07	21.05	21.05	21.04	21.03	21.02	21.02
15.0	20.89	20.89	20.87	20.87	20.86	20.85	20.83	20.83	20.82	20.81
17.5	20.66	20.65	20.64	20.63	20.62	20.61	20.60	20.59	20.57	20.55
20.0	20.40	20.39	20.36	20.36	20.35	20.35	20.33	20.31	20.29	20.27
22.5	20.11	20.10	20.08	20.07	20.05	20.04	20.02	20.00	19.98	19.94
25.0	19.80	19.78	19.76	19.75	19.74	19.72	19.69	19.65	19.62	19.58
27.5	19.48	19.46	19.44	19.42	19.40	19.37	19.33	19.28	19.23	19.18
30.0	19.14	19.12	19.09	19.07	19.04	19.00	18.95	18.88	18.81	18.74
32.5	18.78	18.75	18.72	18.69	18.66	18.60	18.54	18.46	18.37	18.29
35.0	18.40	18.37	18.34	18.30	18.25	18.18	18.10	18.01	17.90	17.80
37.5	18.00	17.97	17.93	17.88	17.83	17.74	17.65	17.53	17.42	17.30
40.0	17.59	17.56	17.52	17.46	17.40	17.29	17.18	17.05	16.92	16.77
42.5	17.16	17.13	17.08	17.02	16.94	16.82	16.68	16.53	16.38	16.21
45.0	16.71	16.68	16.64	16.56	16.48	16.33	16.18	16.01	15.83	15.65
47.5	16.29	16.24	16.18	16.09	16.00	15.84	15.68	15.48	15.27	15.06
50.0	15.83	15.78	15.73	15.62	15.51	15.34	15.16	14.94	14.71	14.47
52.5	15.38	15.33	15.27	15.15	15.03	14.84	14.65	14.39	14.12	13.85
55.0	14.92	14.86	14.80	14.67	14.53	14.34	14.14	13.84	13.53	13.23
57.5	14.48	14.41	14.34	14.20	14.04	13.85	13.64	13.30	12.95	12.61
60.0	14.02	13.96	13.88	13.73	13.56	13.37	13.17	12.77	12.38	12.00
62.5	13.57	13.50	13.42	13.26	13.10	12.91	12.72	12.27	11.81	11.39
65.0	13.14	13.06	12.98	12.81	12.64	12.43	12.21	11.73	11.25	10.79
67.5	12.71	12.63	12.55	12.36	12.17	11.91	11.63	11.17	10.71	10.21
70.0	12.29	12.21	12.12	11.93	11.72	11.40	11.07	10.62	10.17	9.64
72.5	11.91	11.82	11.73	11.52	11.30	10.96	10.61	10.15	9.68	9.13
75.0	11.55	11.47	11.39	11.17	10.95	10.58	10.21	9.72	9.23	8.63
77.5	11.27	11.18	11.10	10.87	10.63	10.26	9.88	9.37	8.85	8.21
80.0	11.00	10.91	10.83	10.61	10.39	10.00	9.61	9.07	8.53	7.87
82.5	10.41	10.33	10.26	10.08	9.89	9.56	9.23	8.76	8.27	7.60
85.0	9.52	9.45	9.38	9.20	9.02	8.71	8.40	7.98	7.55	7.01
87.5	8.29	8.23	8.16	7.99	7.81	7.52	7.22	6.81	6.41	5.90
90.0	6.85	6.80	6.74	6.57	6.38	6.09	5.80	5.40	5.00	4.50
95.0	4.49	4.43	4.37	4.15	3.93	3.60	3.26	2.80	2.33	1.83
100.0	0.78	0.73	0.68	0.55	0.40	0.29	0.17	0.14	0.10	0.10
105.0	0.03	0.03	0.03	0.05	0.05	0.06	0.06	0.06	0.05	0.05
110.0	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03
115.0	0.00	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
120.0	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	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	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51	21.51
2.5	21.47	21.47	21.46	21.46	21.45	21.45	21.44	21.44	21.44
5.0	21.40	21.40	21.39	21.39	21.39	21.38	21.37	21.37	21.36
7.5	21.30	21.30	21.29	21.29	21.28	21.28	21.28	21.27	21.26
10.0	21.17	21.17	21.16	21.16	21.15	21.15	21.14	21.14	21.14
12.5	21.01	21.00	20.98	20.98	20.97	20.97	20.96	20.97	20.96
15.0	20.79	20.78	20.78	20.77	20.76	20.75	20.74	20.74	20.73
17.5	20.53	20.53	20.51	20.50	20.49	20.48	20.47	20.46	20.45
20.0	20.25	20.23	20.20	20.19	20.17	20.16	20.14	20.13	20.12
22.5	19.91	19.88	19.85	19.83	19.80	19.79	19.77	19.77	19.76
25.0	19.53	19.50	19.46	19.43	19.41	19.39	19.38	19.37	19.35
27.5	19.12	19.08	19.03	19.01	18.97	18.96	18.94	18.92	18.90
30.0	18.67	18.62	18.57	18.53	18.49	18.47	18.45	18.44	18.43
32.5	18.20	18.14	18.08	18.03	17.98	17.96	17.92	17.92	17.90
35.0	17.69	17.62	17.54	17.48	17.43	17.40	17.37	17.36	17.35
37.5	17.17	17.08	16.98	16.92	16.85	16.82	16.78	16.76	16.75
40.0	16.62	16.51	16.39	16.31	16.23	16.19	16.14	16.13	16.12
42.5	16.05	15.91	15.77	15.67	15.57	15.52	15.47	15.46	15.44
45.0	15.46	15.29	15.13	15.01	14.89	14.83	14.77	14.75	14.73
47.5	14.85	14.66	14.46	14.32	14.17	14.10	14.03	14.00	13.98
50.0	14.22	14.00	13.77	13.60	13.42	13.34	13.25	13.22	13.19
52.5	13.58	13.33	13.07	12.87	12.67	12.57	12.46	12.42	12.38
55.0	12.92	12.64	12.35	12.11	11.87	11.75	11.62	11.58	11.54
57.5	12.27	11.95	11.62	11.35	11.07	10.91	10.75	10.71	10.66
60.0	11.61	11.25	10.88	10.56	10.24	10.05	9.86	9.81	9.75
62.5	10.97	10.56	10.14	9.78	9.41	9.18	8.95	8.88	8.81
65.0	10.32	9.87	9.40	8.99	8.57	8.30	8.02	7.94	7.85
67.5	9.71	9.19	8.67	8.20	7.73	7.40	7.08	6.98	6.87
70.0	9.11	8.54	7.97	7.44	6.91	6.53	6.15	6.03	5.90
72.5	8.57	7.93	7.30	6.71	6.12	5.68	5.22	5.07	4.91
75.0	8.04	7.36	6.69	6.03	5.36	4.85	4.32	4.13	3.93
77.5	7.56	6.85	6.14	5.40	4.66	4.06	3.46	3.22	2.98
80.0	7.20	6.43	5.66	4.86	4.05	3.37	2.68	2.38	2.08
82.5	6.92	6.11	5.30	4.43	3.55	2.78	2.00	1.64	1.28
85.0	6.46	5.74	5.02	4.10	3.18	2.33	1.48	1.05	0.62
87.5	5.39	4.77	4.15	3.45	2.73	1.93	1.12	0.65	0.17
90.0	4.01	3.44	2.86	2.26	1.66	1.11	0.56	0.29	0.02
95.0	1.32	0.84	0.36	0.24	0.10	0.07	0.03	0.02	0.00
100.0	0.09	0.08	0.06	0.05	0.03	0.03	0.02	0.00	0.00
105.0	0.05	0.04	0.03	0.03	0.02	0.02	0.00	0.00	0.00
110.0	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00
115.0	0.02	0.02	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	7.91	N.A.	9.90
0-30	16.94	N.A.	21.10
0-40	28.11	N.A.	35.00
0-60	52.06	N.A.	64.90
0-80	71.34	N.A.	88.90
0-90	77.86	N.A.	97.10
10-90	75.82	N.A.	94.50
20-40	20.20	N.A.	25.20
20-50	32.30	N.A.	40.30
40-70	34.50	N.A.	43.00
60-80	19.29	N.A.	24.00
70-80	8.73	N.A.	10.90
80-90	6.51	N.A.	8.10
90-110	2.34	N.A.	2.90
90-120	2.35	N.A.	2.90
90-130	2.36	N.A.	2.90
90-150	2.36	N.A.	2.90
90-180	2.36	N.A.	2.90
110-180	0.02	N.A.	0.00
0-180	80.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.04
10-20	5.88
20-30	9.03
30-40	11.17
40-50	12.11
50-60	11.84
60-70	10.56
70-80	8.73
80-90	6.51
90-100	2.26
100-110	0.08
110-120	0.01
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

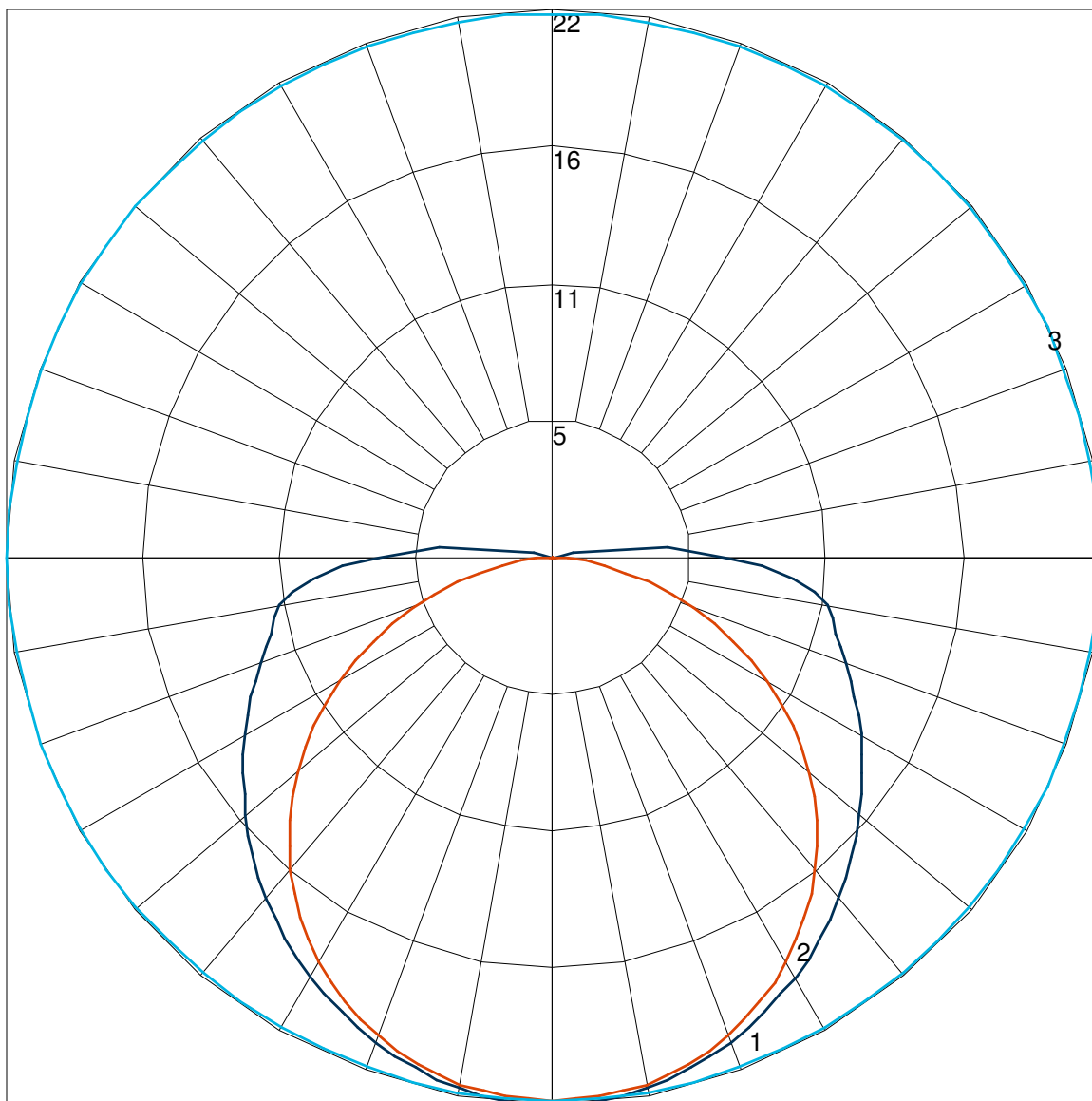
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	100	100	100	97
1	105	99	93	88	102	96	91	87	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	65	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	37	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	36	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 = 21.58 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.)