



1961 McGaw Ave, Irvine, CA 92614  
phone: 949.442.1601  
email: info@tempolc.com

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SL-PRO-24DC-04-27-01.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 3903  
[\_ECN] 3935  
[TESTLAB] Tempo LLC  
[ISSUEDATE] 9/12/2019 2:20:46 PM  
[MANUFAC] Tempo LLC  
[LUMCAT] SL-PRO-24DC-04-27-01  
[LUMINAIRE] Aluminum housing with opal lens  
[LAMP] Fifty-four (54) white LEDs (2700K)  
[\_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	100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	25
Total Luminaire Watts	3.94
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	3038	3160	4284
55	2854	2885	4071
65	2736	2640	3651
75	2741	2495	2813
85	2718	2574	1003

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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>	26.82	26.82	26.82	26.82	26.82	26.82	26.82	26.82	26.82	26.82
<b>2.5</b>	26.86	26.85	26.83	26.83	26.82	26.83	26.82	26.82	26.80	26.79
<b>5.0</b>	26.79	26.77	26.75	26.74	26.73	26.74	26.73	26.72	26.70	26.70
<b>7.5</b>	26.66	26.64	26.62	26.61	26.60	26.60	26.60	26.59	26.57	26.57
<b>10.0</b>	26.48	26.47	26.45	26.44	26.43	26.44	26.43	26.42	26.40	26.40
<b>12.5</b>	26.26	26.25	26.24	26.23	26.22	26.22	26.21	26.20	26.19	26.17
<b>15.0</b>	26.01	26.00	25.98	25.98	25.97	25.97	25.96	25.94	25.92	25.90
<b>17.5</b>	25.71	25.70	25.68	25.68	25.67	25.66	25.64	25.62	25.60	25.59
<b>20.0</b>	25.39	25.37	25.35	25.35	25.34	25.32	25.31	25.28	25.25	25.22
<b>22.5</b>	25.03	25.01	24.98	24.98	24.96	24.94	24.91	24.88	24.85	24.81
<b>25.0</b>	24.65	24.63	24.59	24.58	24.57	24.53	24.49	24.45	24.40	24.35
<b>27.5</b>	24.25	24.22	24.18	24.16	24.13	24.09	24.04	23.98	23.91	23.86
<b>30.0</b>	23.82	23.78	23.75	23.72	23.68	23.63	23.57	23.49	23.40	23.32
<b>32.5</b>	23.37	23.33	23.29	23.24	23.20	23.14	23.07	22.96	22.86	22.76
<b>35.0</b>	22.90	22.85	22.80	22.75	22.70	22.61	22.52	22.40	22.28	22.16
<b>37.5</b>	22.40	22.35	22.29	22.23	22.16	22.06	21.95	21.82	21.67	21.53
<b>40.0</b>	21.89	21.84	21.78	21.71	21.64	21.51	21.37	21.21	21.06	20.89
<b>42.5</b>	21.37	21.30	21.24	21.16	21.08	20.92	20.76	20.58	20.40	20.20
<b>45.0</b>	20.81	20.75	20.69	20.61	20.53	20.33	20.13	19.93	19.72	19.49
<b>47.5</b>	20.26	20.19	20.12	20.04	19.95	19.73	19.50	19.26	19.03	18.77
<b>50.0</b>	19.70	19.63	19.55	19.46	19.37	19.11	18.85	18.58	18.31	18.02
<b>52.5</b>	19.13	19.05	18.98	18.88	18.77	18.49	18.20	17.90	17.59	17.27
<b>55.0</b>	18.57	18.48	18.40	18.30	18.19	17.87	17.55	17.21	16.87	16.50
<b>57.5</b>	18.00	17.92	17.84	17.73	17.62	17.27	16.90	16.52	16.14	15.73
<b>60.0</b>	17.44	17.36	17.28	17.18	17.08	16.68	16.27	15.84	15.41	14.96
<b>62.5</b>	16.87	16.79	16.71	16.64	16.56	16.10	15.63	15.17	14.70	14.19
<b>65.0</b>	16.33	16.24	16.15	16.00	15.84	15.42	14.99	14.50	14.00	13.45
<b>67.5</b>	15.79	15.69	15.60	15.37	15.15	14.75	14.36	13.85	13.33	12.73
<b>70.0</b>	15.27	15.17	15.07	14.82	14.58	14.17	13.76	13.23	12.69	12.07
<b>72.5</b>	14.79	14.69	14.59	14.32	14.06	13.64	13.22	12.65	12.07	11.38
<b>75.0</b>	14.38	14.28	14.17	13.90	13.62	13.18	12.73	12.12	11.50	10.77
<b>77.5</b>	14.02	13.91	13.81	13.53	13.24	12.78	12.32	11.68	11.04	10.25
<b>80.0</b>	13.71	13.61	13.50	13.23	12.95	12.47	11.99	11.32	10.65	9.83
<b>82.5</b>	12.98	12.90	12.80	12.57	12.34	11.94	11.53	10.94	10.34	9.51
<b>85.0</b>	11.87	11.79	11.71	11.48	11.25	10.88	10.51	9.98	9.45	8.77
<b>87.5</b>	10.34	10.26	10.19	9.97	9.74	9.38	9.02	8.52	8.02	7.40
<b>90.0</b>	8.56	8.49	8.42	8.20	7.98	7.62	7.26	6.77	6.26	5.65
<b>95.0</b>	5.61	5.52	5.43	5.16	4.89	4.47	4.04	3.48	2.91	2.27
<b>100.0</b>	0.93	0.88	0.82	0.65	0.47	0.33	0.19	0.16	0.12	0.11
<b>105.0</b>	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06
<b>110.0</b>	0.00	0.03	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04
<b>115.0</b>	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>120.0</b>	0.00	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
<b>125.0</b>	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<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	26.82	26.82	26.82	26.82	26.82	26.82	26.82	26.82	26.82
2.5	26.78	26.77	26.75	26.75	26.73	26.72	26.70	26.70	26.69
5.0	26.69	26.68	26.66	26.65	26.64	26.63	26.61	26.61	26.60
7.5	26.56	26.55	26.53	26.52	26.51	26.50	26.48	26.48	26.48
10.0	26.39	26.38	26.35	26.34	26.33	26.31	26.29	26.29	26.28
12.5	26.16	26.14	26.12	26.10	26.09	26.07	26.05	26.05	26.04
15.0	25.88	25.86	25.84	25.83	25.81	25.79	25.77	25.76	25.75
17.5	25.56	25.54	25.51	25.49	25.47	25.44	25.42	25.41	25.40
20.0	25.19	25.16	25.12	25.10	25.07	25.05	25.02	25.02	25.01
22.5	24.76	24.73	24.69	24.66	24.63	24.61	24.58	24.57	24.56
25.0	24.29	24.26	24.21	24.18	24.13	24.11	24.09	24.08	24.07
27.5	23.80	23.74	23.68	23.64	23.60	23.57	23.54	23.53	23.53
30.0	23.24	23.18	23.12	23.07	23.01	22.98	22.95	22.93	22.92
32.5	22.66	22.58	22.50	22.44	22.38	22.34	22.30	22.29	22.28
35.0	22.03	21.94	21.84	21.77	21.70	21.66	21.62	21.61	21.59
37.5	21.39	21.27	21.14	21.06	20.97	20.93	20.88	20.86	20.84
40.0	20.71	20.56	20.41	20.31	20.20	20.15	20.09	20.08	20.06
42.5	20.00	19.83	19.65	19.52	19.40	19.33	19.26	19.25	19.23
45.0	19.26	19.06	18.85	18.70	18.54	18.46	18.39	18.36	18.34
47.5	18.50	18.27	18.03	17.84	17.66	17.57	17.47	17.44	17.41
50.0	17.73	17.45	17.17	16.95	16.73	16.62	16.51	16.48	16.44
52.5	16.93	16.62	16.29	16.04	15.78	15.65	15.51	15.47	15.42
55.0	16.13	15.77	15.39	15.10	14.80	14.63	14.46	14.42	14.38
57.5	15.31	14.90	14.48	14.14	13.79	13.59	13.39	13.33	13.28
60.0	14.50	14.03	13.56	13.17	12.77	12.52	12.27	12.20	12.14
62.5	13.68	13.16	12.63	12.18	11.72	11.43	11.13	11.05	10.97
65.0	12.89	12.30	11.72	11.20	10.67	10.33	9.98	9.88	9.77
67.5	12.12	11.47	10.81	10.23	9.63	9.23	8.81	8.69	8.56
70.0	11.44	10.70	9.94	9.28	8.61	8.14	7.66	7.51	7.35
72.5	10.68	9.90	9.11	8.38	7.64	7.08	6.52	6.32	6.11
75.0	10.03	9.20	8.36	7.53	6.70	6.04	5.38	5.14	4.89
77.5	9.46	8.57	7.68	6.75	5.83	5.07	4.30	4.00	3.69
80.0	9.01	8.05	7.09	6.09	5.07	4.20	3.33	2.96	2.58
82.5	8.67	7.66	6.64	5.55	4.45	3.47	2.49	2.03	1.57
85.0	8.09	7.20	6.30	5.14	3.99	2.91	1.84	1.30	0.75
87.5	6.77	5.99	5.21	4.33	3.43	2.41	1.39	0.79	0.20
90.0	5.03	4.31	3.59	2.84	2.09	1.40	0.70	0.37	0.03
95.0	1.63	1.04	0.44	0.28	0.13	0.08	0.03	0.03	0.02
100.0	0.11	0.09	0.07	0.06	0.04	0.03	0.02	0.02	0.00
105.0	0.05	0.05	0.04	0.03	0.02	0.02	0.00	0.00	0.00
110.0	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00
115.0	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00
120.0	0.02	0.02	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	9.85	N.A.	9.90
0-30	21.08	N.A.	21.10
0-40	34.98	N.A.	35.00
0-60	64.80	N.A.	64.90
0-80	88.82	N.A.	88.90
0-90	96.96	N.A.	97.10
10-90	94.42	N.A.	94.50
20-40	25.13	N.A.	25.20
20-50	40.20	N.A.	40.20
40-70	42.97	N.A.	43.00
60-80	24.02	N.A.	24.00
70-80	10.88	N.A.	10.90
80-90	8.14	N.A.	8.10
90-110	2.91	N.A.	2.90
90-120	2.93	N.A.	2.90
90-130	2.93	N.A.	2.90
90-150	2.93	N.A.	2.90
90-180	2.93	N.A.	2.90
110-180	0.03	N.A.	0.00
0-180	99.90	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2.54
10-20	7.31
20-30	11.23
30-40	13.90
40-50	15.07
50-60	14.75
60-70	13.15
70-80	10.88
80-90	8.14
90-100	2.81
100-110	0.09
110-120	0.02
120-130	0.01
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

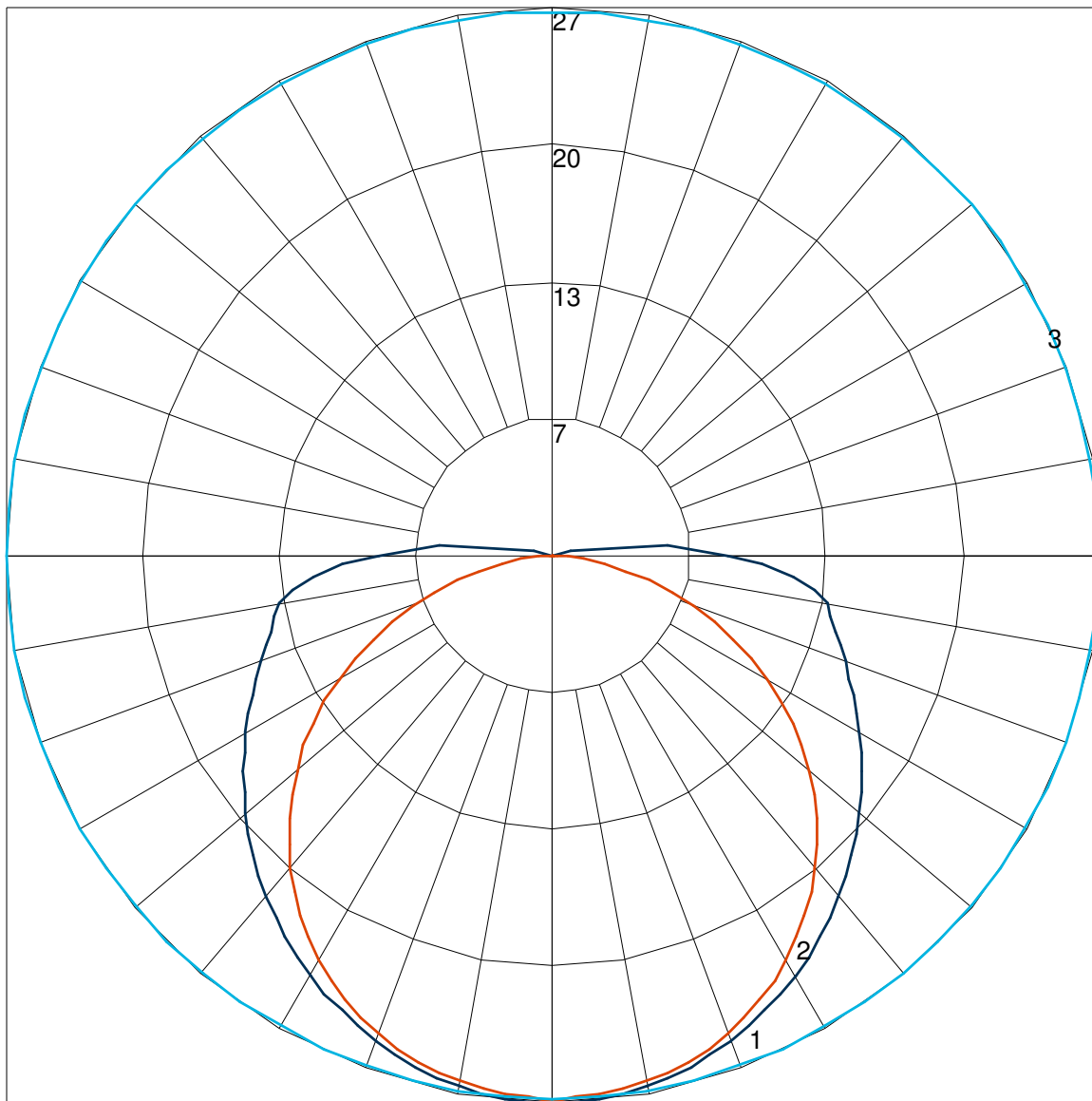
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	98	93	88	101	96	91	86	91	87	83	86	83	80	82	79	77	74
2	94	84	76	69	91	82	74	68	78	71	66	74	69	64	70	66	62	59
3	85	73	64	56	82	71	62	55	68	60	54	64	58	53	61	56	51	49
4	77	64	54	47	75	63	53	46	60	52	45	57	50	44	54	48	43	41
5	71	57	47	40	69	56	46	40	53	45	39	51	44	38	48	42	37	35
6	65	51	41	35	63	50	41	34	48	40	34	46	39	33	44	37	33	30
7	61	46	37	30	59	45	36	30	43	35	30	42	34	29	40	34	29	27
8	56	42	33	27	54	41	33	27	40	32	26	38	31	26	37	30	26	24
9	53	38	30	24	51	38	30	24	36	29	24	35	28	23	34	28	23	21
10	49	35	27	22	48	35	27	22	34	26	21	32	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 26.86 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.)