



IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY_ZIS-22-LEDLO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L101411401R01
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 11/20/2014
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] ZIS-LED SO-22-SAL-DM10
 [MORE] DIFFUSED LENS
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST]
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 1
 [_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3816
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.02 ft
Luminous Width (90-270)	2.02 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1178	1237	1178
55	1343	1407	1337
65	1653	1712	1664
75	2291	2278	2350
85	4414	3088	4596

IES INDOOR REPORT
PHOTOMETRIC FILENAME : COPY_ZIS-22-LEDLO.IES

CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	304.410	304.410	304.410	304.410	304.410	304.410	304.410	304.410	304.410	304.410
5	309.336	309.171	309.428	309.249	309.060	309.180	309.240	309.267	309.235	309.350
10	319.438	319.318	319.406	319.304	319.498	319.981	320.284	320.519	320.634	320.845
15	330.501	330.524	330.699	331.025	331.683	332.612	333.362	333.955	334.392	334.751
20	340.280	340.101	341.122	342.019	343.358	344.775	346.109	347.226	348.151	348.790
25	347.006	347.323	348.800	350.584	352.641	354.968	356.762	358.308	359.504	360.286
30	349.710	350.387	352.705	355.235	358.128	361.123	363.736	365.585	367.080	367.972
35	345.294	346.173	349.457	353.124	357.664	362.061	365.856	368.377	370.047	370.985
40	340.469	341.665	345.294	349.375	353.846	357.875	361.670	364.578	367.549	368.915
45	336.288	338.105	342.070	346.449	350.354	353.519	356.431	359.292	361.187	362.158
50	327.147	329.420	333.371	338.325	343.510	347.530	350.713	353.294	354.011	354.283
55	319.254	321.370	326.099	331.002	335.464	339.025	342.199	344.577	345.819	346.132
60	312.161	314.470	319.314	324.070	328.049	331.568	334.471	336.384	337.378	338.045
65	301.691	304.092	308.890	313.913	318.348	321.977	324.604	326.301	327.419	328.054
70	291.185	293.678	298.811	303.361	307.133	309.985	312.101	313.591	314.760	315.716
75	279.013	281.387	285.835	289.455	292.381	294.635	296.254	297.468	298.664	299.695
80	266.938	268.888	271.257	272.555	273.088	272.964	272.674	272.550	272.941	273.879
85	253.336	251.638	245.295	237.838	230.106	222.672	216.205	211.398	208.716	208.385
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	253.584	251.836	245.088	236.698	228.321	220.703	214.250	209.893	207.745	207.800
100	265.227	267.283	269.716	271.101	271.671	271.768	271.593	271.731	272.343	273.548
105	275.917	278.410	282.923	286.709	289.763	292.206	294.138	295.808	297.464	298.894
110	286.925	289.519	294.740	299.589	303.568	306.760	309.304	311.300	313.030	314.484
115	297.017	299.409	304.437	309.792	314.612	318.550	321.632	323.854	325.491	326.724
120	307.657	310.040	315.045	320.119	324.512	328.426	331.803	334.213	335.690	336.614
125	315.523	317.607	322.460	327.644	332.414	336.269	339.751	342.383	344.011	344.632
130	324.755	326.582	331.053	335.989	341.085	345.465	348.873	351.477	352.319	352.673
135	334.682	336.173	340.446	344.802	348.823	352.144	354.959	357.563	359.306	360.065
140	339.678	340.658	344.002	348.045	352.429	356.440	359.950	362.512	365.217	366.192
145	343.956	344.811	348.068	351.619	355.948	360.171	363.621	365.797	367.144	367.724
150	347.659	348.183	350.267	352.834	355.552	358.391	360.658	362.333	363.510	363.993
155	343.993	344.255	345.580	347.263	349.108	351.072	352.687	353.947	354.844	355.332
160	336.021	335.768	336.513	337.309	338.468	339.834	341.007	341.936	342.622	343.054
165	324.907	324.880	324.926	325.289	325.882	326.729	327.396	327.847	328.127	328.376
170	312.993	312.878	312.929	312.690	312.805	313.265	313.545	313.734	313.752	313.941
175	302.395	302.234	302.464	302.266	302.022	302.027	301.990	301.930	301.824	301.852
180	296.346	296.346	296.346	296.346	296.346	296.346	296.346	296.346	296.346	296.346

**Vert.
Angles**

Horizontal Angles

	50	55	60	65	70	75	80	85	90
0	304.410	304.410	304.410	304.410	304.410	304.410	304.410	304.410	304.410
5	309.428	309.640	309.819	309.920	309.907	310.141	310.302	310.063	310.210
10	320.905	321.080	321.186	321.190	321.011	321.154	321.434	321.347	321.581
15	335.009	335.174	335.184	334.894	334.443	334.282	334.323	334.448	334.484
20	349.186	349.200	348.951	348.353	347.461	346.665	346.417	345.782	346.017
25	360.700	360.571	360.120	359.246	357.843	356.302	354.913	353.919	353.616
30	368.262	367.885	366.983	365.401	363.133	360.796	358.446	356.629	355.989
35	371.008	370.217	368.695	366.303	363.552	360.359	357.259	354.347	353.285
40	368.759	367.568	365.544	362.531	359.016	355.014	351.049	347.801	346.417
45	362.563	361.376	359.030	355.727	351.532	347.286	342.925	338.670	336.518
50	353.952	352.751	350.630	347.475	343.183	338.128	333.058	328.504	326.020
55	345.271	343.937	341.821	338.988	335.446	330.722	325.547	320.477	317.699
60	337.741	336.720	334.691	332.005	328.739	324.723	319.787	314.691	311.788

IES INDOOR REPORT
PHOTOMETRIC FILENAME : COPY_ZIS-22-LEDLO.IES

CANDELA TABULATION - (Cont.)

65	327.966	327.520	326.416	324.282	320.993	316.701	311.498	306.420	303.591
70	316.084	316.094	315.519	314.166	311.972	308.614	304.019	298.775	295.941
75	300.495	301.056	301.268	300.812	299.359	297.036	293.443	288.770	286.194
80	275.223	276.883	278.815	280.687	281.920	282.077	281.124	278.640	276.543
85	210.574	215.009	221.426	229.448	238.193	247.098	255.484	262.343	263.805
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	210.215	214.627	220.749	228.109	236.518	244.821	253.161	261.666	263.493
100	275.052	276.741	278.594	280.172	281.304	281.451	280.356	278.121	275.830
105	300.040	300.831	301.134	300.651	299.193	296.898	293.452	289.142	286.120
110	315.436	315.919	315.689	314.382	312.202	309.042	304.727	299.814	296.350
115	327.189	327.134	326.149	324.121	321.135	317.184	312.386	307.574	304.037
120	336.573	335.860	334.162	331.481	328.270	324.558	319.976	315.054	311.342
125	344.029	342.870	340.888	337.861	334.448	330.018	325.110	320.073	316.397
130	352.443	351.173	348.915	345.639	341.495	336.646	331.766	327.051	323.730
135	360.249	358.897	356.477	353.078	348.878	344.724	340.368	335.782	332.861
140	365.728	364.269	361.933	358.699	355.083	351.090	347.139	343.537	341.486
145	367.347	366.146	364.269	361.532	358.547	355.322	352.199	348.754	347.079
150	363.828	363.009	361.753	359.867	357.392	354.881	352.296	349.853	348.800
155	355.470	354.991	354.191	353.022	351.399	349.715	347.949	346.380	345.685
160	343.298	343.027	342.539	341.748	340.681	339.664	338.896	337.884	337.930
165	328.555	328.606	328.403	327.948	327.262	326.775	326.457	326.273	326.163
170	313.941	314.005	313.927	313.706	313.301	313.196	313.301	313.108	313.278
175	301.811	301.907	301.972	301.995	301.921	302.031	302.128	301.824	301.967
180	296.346	296.346	296.346	296.346	296.346	296.346	296.346	296.346	296.346

IES INDOOR REPORT
PHOTOMETRIC FILENAME : COPY_ZIS-22-LEDLO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	124.67	N.A.	3.30
0-30	289.00	N.A.	7.60
0-40	515.32	N.A.	13.50
0-60	1087.7	N.A.	28.50
0-80	1713.73	N.A.	44.90
0-90	1914.97	N.A.	50.20
10-90	1885.09	N.A.	49.40
20-40	390.64	N.A.	10.20
20-50	662.23	N.A.	17.40
40-70	888.39	N.A.	23.30
60-80	626.03	N.A.	16.40
70-80	310.03	N.A.	8.10
80-90	201.24	N.A.	5.30
90-110	509.19	N.A.	13.30
90-120	823.54	N.A.	21.60
90-130	1122.66	N.A.	29.40
90-150	1616.75	N.A.	42.40
90-180	1900.89	N.A.	49.80
110-180	1391.69	N.A.	36.50
0-180	3815.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	29.88
10-20	94.79
20-30	164.32
30-40	226.32
40-50	271.59
50-60	300.80
60-70	316.00
70-80	310.03
80-90	201.24
90-100	200.42
100-110	308.78
110-120	314.35
120-130	299.12
130-140	269.88
140-150	224.20
150-160	162.01
160-170	92.96
170-180	29.17

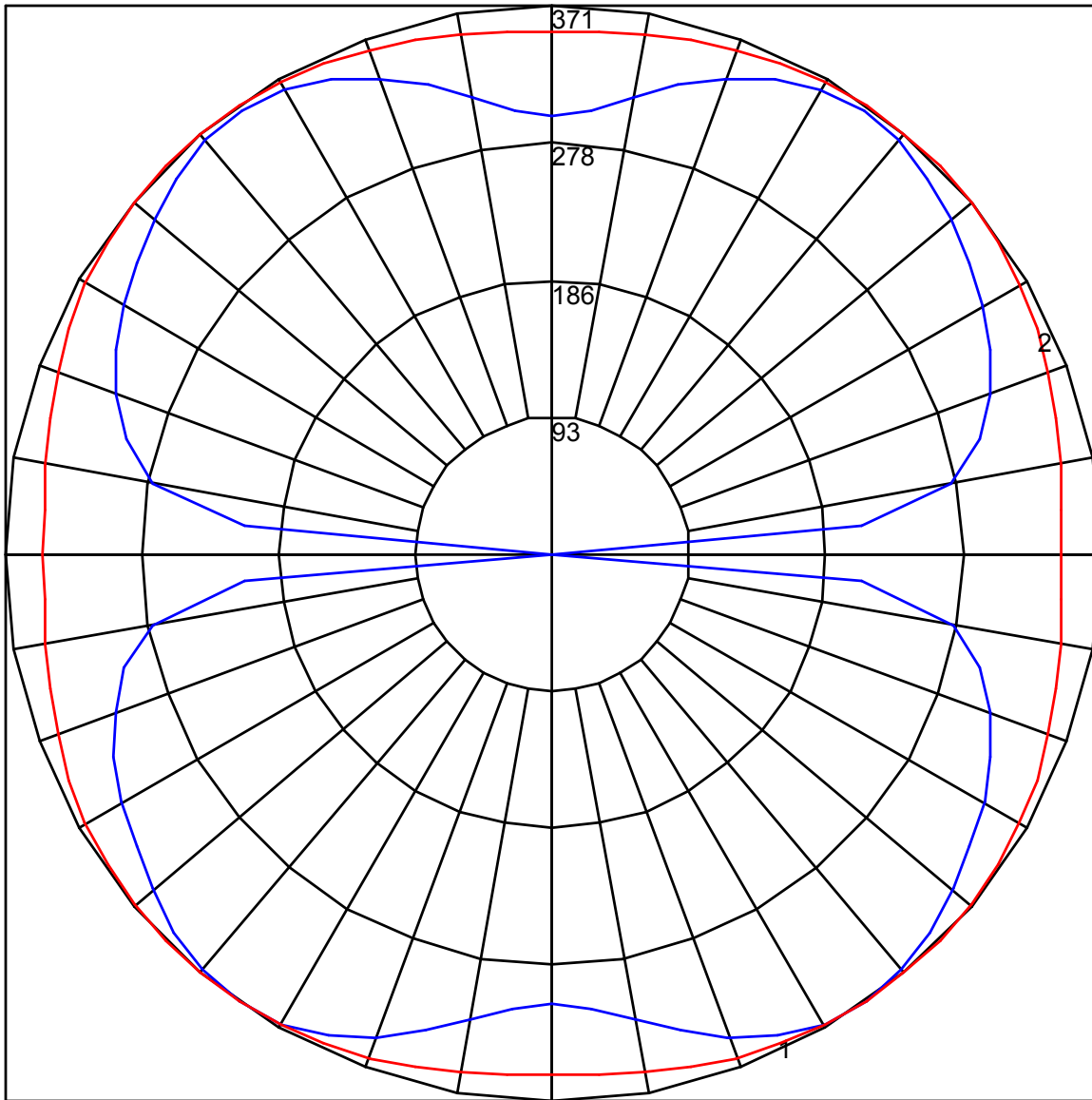
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : COPY_ZIS-22-LEDLO.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	95	89	84	80	87	82	78	74	69	65	62	56	54	52	45	43	42	36
2	85	76	69	62	78	70	63	58	58	53	49	48	44	41	38	35	33	28
3	77	66	57	50	70	60	53	47	50	44	40	41	36	33	32	29	26	22
4	70	57	48	42	63	53	45	39	44	38	33	36	31	27	28	25	22	18
5	64	51	42	35	58	47	38	32	39	32	28	32	27	23	25	21	18	15
6	58	45	36	30	53	41	33	28	35	28	24	28	23	19	22	19	16	12
7	54	40	32	26	49	37	29	24	31	25	20	25	21	17	20	16	13	11
8	50	36	28	22	45	34	26	21	28	22	18	23	18	15	18	15	12	9
9	46	33	25	20	42	31	23	18	26	20	16	21	16	13	17	13	10	8
10	43	30	23	17	39	28	21	16	24	18	14	19	15	12	16	12	9	7

POLAR GRAPH



Maximum Candela = 371.008 Located At Horizontal Angle = 50, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)