



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-44-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-LEDLO-44-SAL-DM10
 [MORE] DIFFUSED LENS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	67
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	2381	2501	2382
55	2716	2846	2703
65	3342	3461	3363
75	4632	4605	4751
85	8924	6244	9292

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	615.437	615.437	615.437	615.437	615.437	615.437	615.437	615.437	615.437	615.437
5	625.397	625.062	625.583	625.220	624.839	625.081	625.202	625.258	625.193	625.425
10	645.820	645.578	645.755	645.550	645.941	646.917	647.531	648.005	648.238	648.666
15	668.186	668.233	668.586	669.247	670.577	672.455	673.971	675.171	676.054	676.780
20	687.958	687.596	689.660	691.474	694.180	697.044	699.741	702.001	703.871	705.163
25	701.555	702.197	705.182	708.790	712.947	717.653	721.280	724.405	726.823	728.404
30	707.023	708.390	713.078	718.193	724.042	730.097	735.379	739.118	742.140	743.944
35	698.095	699.872	706.512	713.924	723.103	731.994	739.666	744.763	748.139	750.036
40	688.340	690.758	698.095	706.344	715.384	723.531	731.203	737.081	743.089	745.851
45	679.886	683.559	691.576	700.430	708.325	714.724	720.611	726.395	730.227	732.189
50	661.407	666.001	673.990	684.006	694.487	702.615	709.051	714.268	715.719	716.267
55	645.448	649.726	659.286	669.200	678.221	685.419	691.836	696.644	699.155	699.788
60	631.107	635.776	645.569	655.185	663.230	670.344	676.212	680.081	682.090	683.438
65	609.941	614.795	624.495	634.651	643.616	650.954	656.264	659.696	661.955	663.239
70	588.699	593.740	604.119	613.316	620.942	626.708	630.986	634.000	636.362	638.296
75	564.092	568.890	577.883	585.203	591.117	595.674	598.948	601.403	603.821	605.904
80	539.679	543.622	548.412	551.034	552.113	551.862	551.276	551.025	551.816	553.713
85	512.179	508.747	495.923	480.847	465.214	450.185	437.109	427.391	421.969	421.299
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	512.681	509.147	495.504	478.541	461.606	446.205	433.157	424.350	420.007	420.118
100	536.219	540.377	545.296	548.096	549.249	549.444	549.091	549.370	550.607	553.043
105	557.833	562.873	571.997	579.650	585.826	590.764	594.670	598.046	601.394	604.286
110	580.088	585.333	595.888	605.690	613.735	620.189	625.332	629.368	632.865	635.804
115	600.492	605.328	615.493	626.318	636.064	644.025	650.256	654.748	658.059	660.551
120	622.003	626.820	636.938	647.196	656.078	663.992	670.818	675.692	678.677	680.546
125	637.906	642.119	651.930	662.411	672.055	679.849	686.889	692.208	695.501	696.756
130	656.571	660.263	669.302	679.281	689.586	698.439	705.331	710.594	712.296	713.012
135	676.640	679.653	688.293	697.100	705.228	711.943	717.635	722.898	726.423	727.958
140	686.740	688.721	695.482	703.657	712.520	720.629	727.725	732.905	738.374	740.345
145	695.389	697.119	703.703	710.883	719.634	728.171	735.146	739.545	742.270	743.442
150	702.875	703.936	708.149	713.338	718.834	724.572	729.157	732.542	734.923	735.900
155	695.463	695.993	698.672	702.076	705.805	709.776	713.040	715.589	717.402	718.388
160	679.346	678.835	680.342	681.950	684.294	687.056	689.428	691.306	692.692	693.566
165	656.878	656.822	656.915	657.650	658.849	660.560	661.909	662.820	663.388	663.890
170	632.791	632.558	632.660	632.177	632.409	633.339	633.907	634.288	634.325	634.706
175	611.363	611.038	611.503	611.103	610.610	610.619	610.545	610.424	610.210	610.266
180	599.134	599.134	599.134	599.134	599.134	599.134	599.134	599.134	599.134	599.134

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	615.437	615.437	615.437	615.437	615.437	615.437	615.437	615.437	615.437
5	625.583	626.011	626.374	626.578	626.550	627.025	627.350	626.867	627.164
10	648.787	649.140	649.354	649.363	649.001	649.289	649.856	649.679	650.154
15	677.300	677.635	677.654	677.068	676.157	675.831	675.915	676.166	676.240
20	705.963	705.991	705.489	704.280	702.476	700.867	700.364	699.081	699.555
25	729.241	728.981	728.069	726.302	723.466	720.350	717.542	715.533	714.919
30	744.530	743.768	741.945	738.746	734.161	729.436	724.684	721.010	719.718
35	750.082	748.483	745.404	740.568	735.007	728.553	722.285	716.398	714.249
40	745.535	743.126	739.034	732.942	725.837	717.746	709.730	703.164	700.364
45	733.007	730.608	725.865	719.188	710.706	702.122	693.306	684.703	680.351
50	715.598	713.171	708.883	702.503	693.827	683.606	673.357	664.150	659.128
55	698.049	695.352	691.074	685.345	678.184	668.633	658.170	647.922	642.305
60	682.825	680.760	676.659	671.228	664.625	656.506	646.527	636.222	630.354

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CANDELA TABULATION - (Cont.)

65	663.062	662.160	659.928	655.613	648.963	640.286	629.768	619.501	613.781
70	639.040	639.059	637.896	635.162	630.726	623.937	614.646	604.044	598.316
75	607.523	608.657	609.085	608.164	605.225	600.529	593.266	583.817	578.609
80	556.428	559.786	563.692	567.477	569.969	570.285	568.360	563.338	559.097
85	425.726	434.691	447.665	463.884	481.563	499.568	516.522	530.388	533.346
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	425.001	433.919	446.298	461.178	478.178	494.965	511.826	529.021	532.713
100	556.084	559.497	563.245	566.435	568.723	569.021	566.807	562.287	557.656
105	606.602	608.201	608.815	607.839	604.891	600.250	593.284	584.570	578.460
110	637.729	638.705	638.240	635.599	631.191	624.802	616.079	606.146	599.143
115	661.490	661.379	659.389	655.287	649.252	641.263	631.563	621.835	614.684
120	680.462	679.021	675.589	670.167	663.676	656.171	646.908	636.957	629.452
125	695.538	693.194	689.186	683.066	676.166	667.210	657.287	647.103	639.673
130	712.547	709.981	705.414	698.793	690.413	680.611	670.744	661.211	654.497
135	728.330	725.595	720.704	713.831	705.340	696.942	688.135	678.863	672.957
140	739.406	736.458	731.733	725.195	717.886	709.813	701.825	694.543	690.395
145	742.679	740.252	736.458	730.924	724.889	718.369	712.055	705.089	701.704
150	735.565	733.910	731.371	727.558	722.554	717.476	712.250	707.312	705.182
155	718.667	717.700	716.081	713.719	710.436	707.033	703.461	700.290	698.886
160	694.059	693.510	692.525	690.925	688.767	686.712	685.159	683.113	683.206
165	664.253	664.355	663.946	663.025	661.639	660.653	660.012	659.640	659.417
170	634.706	634.837	634.679	634.232	633.414	633.200	633.414	633.023	633.367
175	610.182	610.378	610.508	610.554	610.406	610.629	610.824	610.210	610.499
180	599.134	599.134	599.134	599.134	599.134	599.134	599.134	599.134	599.134

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	252.06	N.A.	3.30
0-30	584.28	N.A.	7.60
0-40	1041.83	N.A.	13.50
0-60	2199.04	N.A.	28.50
0-80	3464.72	N.A.	44.90
0-90	3871.57	N.A.	50.20
10-90	3811.16	N.A.	49.40
20-40	789.78	N.A.	10.20
20-50	1338.85	N.A.	17.40
40-70	1796.09	N.A.	23.30
60-80	1265.68	N.A.	16.40
70-80	626.80	N.A.	8.10
80-90	406.85	N.A.	5.30
90-110	1029.45	N.A.	13.30
90-120	1664.99	N.A.	21.60
90-130	2269.73	N.A.	29.40
90-150	3268.65	N.A.	42.40
90-180	3843.09	N.A.	49.80
110-180	2813.64	N.A.	36.50
0-180	7714.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.41
10-20	191.65
20-30	332.22
30-40	457.55
40-50	549.08
50-60	608.13
60-70	638.88
70-80	626.80
80-90	406.85
90-100	405.19
100-110	624.26
110-120	635.54
120-130	604.74
130-140	545.63
140-150	453.28
150-160	327.54
160-170	187.94
170-180	58.97

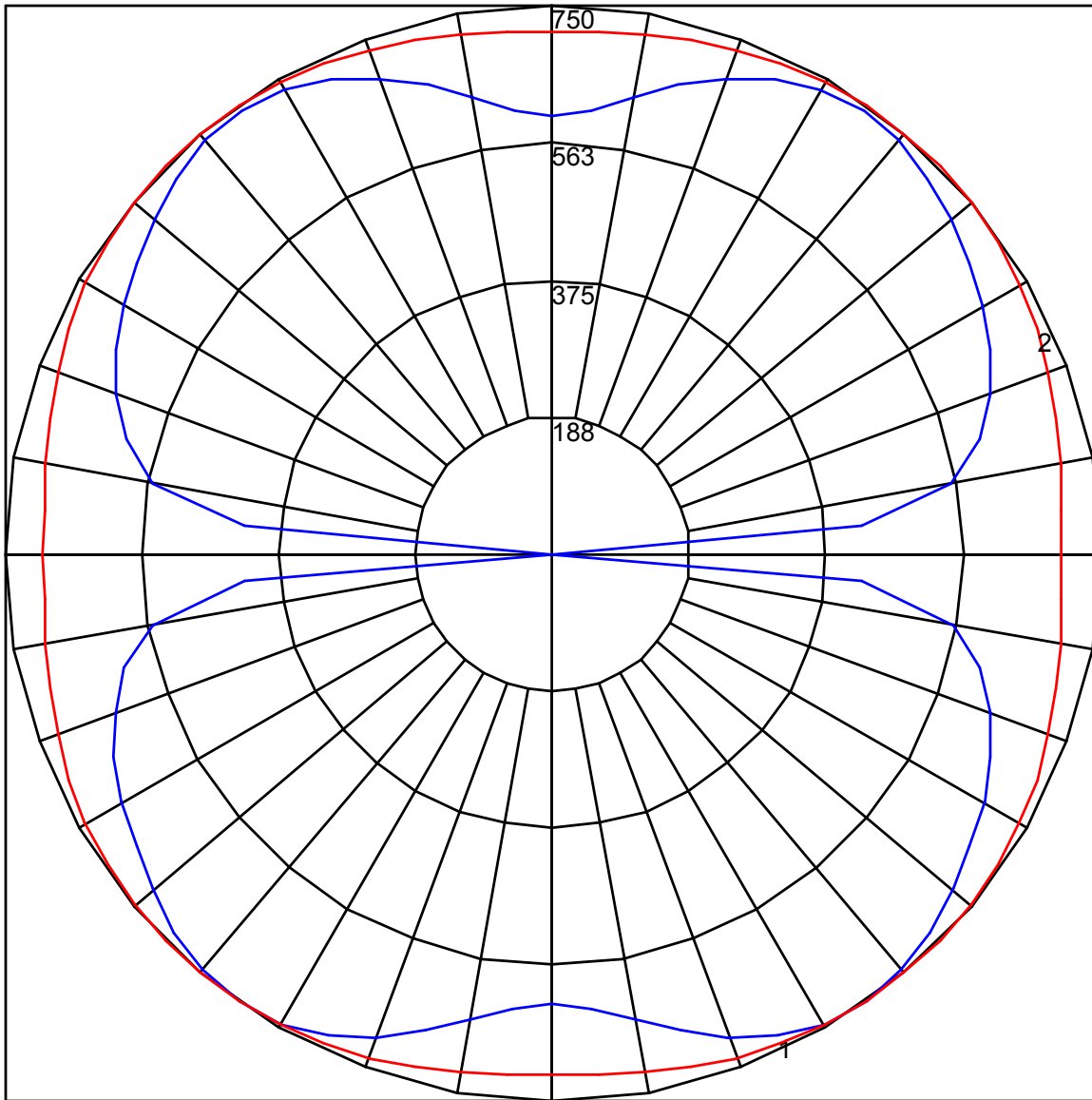
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 750.082 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.)