



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-33-LED-LO.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-33-LEDMO-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	5724
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	50
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	1766	1856	1768
55	2015	2111	2005
65	2480	2568	2495
75	3436	3417	3525
85	6621	4633	6894

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	456.614	456.614	456.614	456.614	456.614	456.614	456.614	456.614	456.614	456.614
5	464.004	463.756	464.142	463.873	463.590	463.770	463.859	463.901	463.852	464.025
10	479.157	478.977	479.108	478.957	479.246	479.971	480.426	480.778	480.951	481.268
15	495.751	495.786	496.048	496.538	497.524	498.918	500.043	500.933	501.589	502.127
20	510.421	510.151	511.683	513.029	515.037	517.162	519.163	520.840	522.226	523.186
25	520.508	520.984	523.199	525.877	528.961	532.452	535.143	537.462	539.256	540.429
30	524.566	525.580	529.057	532.852	537.193	541.684	545.604	548.377	550.620	551.959
35	517.942	519.259	524.186	529.685	536.496	543.092	548.785	552.566	555.070	556.478
40	510.703	512.497	517.942	524.062	530.769	536.813	542.506	546.866	551.324	553.373
45	504.431	507.157	513.105	519.673	525.532	530.279	534.646	538.938	541.781	543.237
50	490.721	494.130	500.057	507.488	515.264	521.295	526.070	529.941	531.017	531.424
55	478.881	482.055	489.148	496.503	503.196	508.537	513.298	516.865	518.728	519.197
60	468.241	471.705	478.970	486.105	492.073	497.352	501.706	504.576	506.067	507.067
65	452.536	456.138	463.335	470.870	477.521	482.965	486.905	489.451	491.128	492.080
70	436.777	440.517	448.217	455.041	460.699	464.977	468.151	470.387	472.139	473.575
75	418.519	422.080	428.752	434.182	438.571	441.952	444.381	446.202	447.996	449.542
80	400.407	403.333	406.886	408.832	409.632	409.446	409.011	408.825	409.411	410.819
85	380.004	377.458	367.942	356.758	345.159	334.008	324.307	317.096	313.074	312.577
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	380.376	377.754	367.632	355.046	342.481	331.055	321.374	314.840	311.618	311.701
100	397.840	400.924	404.575	406.651	407.507	407.652	407.390	407.597	408.514	410.322
105	413.876	417.616	424.384	430.063	434.645	438.309	441.207	443.711	446.195	448.341
110	430.387	434.279	442.111	449.383	455.352	460.140	463.956	466.951	469.545	471.725
115	445.526	449.114	456.656	464.687	471.919	477.825	482.448	485.781	488.237	490.086
120	461.486	465.060	472.567	480.178	486.767	492.639	497.704	501.319	503.534	504.921
125	473.285	476.410	483.690	491.466	498.622	504.404	509.627	513.574	516.016	516.948
130	487.133	489.872	496.579	503.983	511.628	518.197	523.310	527.215	528.478	529.009
135	502.023	504.259	510.669	517.203	523.234	528.216	532.438	536.344	538.959	540.097
140	509.517	510.986	516.003	522.068	528.643	534.660	539.925	543.768	547.825	549.288
145	515.934	517.217	522.102	527.429	533.922	540.256	545.431	548.695	550.717	551.586
150	521.488	522.275	525.400	529.251	533.329	537.586	540.988	543.499	545.266	545.990
155	515.989	516.382	518.369	520.895	523.662	526.608	529.030	530.920	532.266	532.997
160	504.031	503.652	504.769	505.963	507.702	509.751	511.511	512.905	513.933	514.581
165	487.361	487.319	487.388	487.933	488.824	490.093	491.094	491.770	492.191	492.563
170	469.490	469.317	469.393	469.034	469.207	469.897	470.318	470.601	470.628	470.911
175	453.592	453.351	453.696	453.399	453.033	453.040	452.985	452.895	452.737	452.778
180	444.519	444.519	444.519	444.519	444.519	444.519	444.519	444.519	444.519	444.519

Vert. Angles	Horizontal Angles								
	50	55	60	65	70	75	80	85	90
0	456.614	456.614	456.614	456.614	456.614	456.614	456.614	456.614	456.614
5	464.142	464.460	464.729	464.881	464.860	465.212	465.453	465.094	465.315
10	481.358	481.620	481.779	481.786	481.516	481.730	482.151	482.020	482.372
15	502.513	502.762	502.775	502.341	501.664	501.423	501.485	501.671	501.727
20	523.779	523.800	523.427	522.530	521.191	519.998	519.625	518.673	519.025
25	541.050	540.856	540.180	538.869	536.765	534.453	532.369	530.879	530.424
30	552.393	551.827	550.475	548.101	544.700	541.195	537.669	534.943	533.984
35	556.513	555.326	553.042	549.454	545.328	540.539	535.888	531.521	529.927
40	553.138	551.351	548.315	543.796	538.524	532.521	526.573	521.702	519.625
45	543.844	542.064	538.545	533.591	527.298	520.929	514.388	508.006	504.776
50	530.927	529.126	525.946	521.212	514.774	507.191	499.588	492.757	489.031
55	517.907	515.906	512.732	508.482	503.169	496.082	488.320	480.716	476.548
60	506.612	505.080	502.037	498.007	493.108	487.085	479.681	472.036	467.682

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CANDELA TABULATION - (Cont.)

65	491.949	491.280	489.624	486.422	481.489	475.051	467.247	459.630	455.386
70	474.127	474.140	473.278	471.249	467.958	462.921	456.028	448.162	443.911
75	450.742	451.584	451.902	451.219	449.038	445.554	440.165	433.154	429.290
80	412.834	415.325	418.223	421.031	422.880	423.115	421.687	417.961	414.814
85	315.861	322.513	332.138	344.172	357.289	370.647	383.226	393.514	395.708
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	315.323	321.940	331.124	342.164	354.777	367.232	379.741	392.500	395.239
100	412.579	415.111	417.892	420.258	421.956	422.176	420.534	417.181	413.745
105	450.059	451.246	451.702	450.977	448.790	445.347	440.179	433.713	429.180
110	473.154	473.878	473.533	471.574	468.303	463.563	457.090	449.721	444.526
115	490.783	490.700	489.224	486.181	481.703	475.776	468.579	461.362	456.055
120	504.859	503.790	501.244	497.221	492.405	486.836	479.964	472.581	467.013
125	516.044	514.305	511.331	506.791	501.671	495.027	487.664	480.109	474.596
130	528.664	526.760	523.372	518.459	512.242	504.970	497.649	490.576	485.594
135	540.373	538.345	534.715	529.616	523.317	517.086	510.552	503.672	499.291
140	548.591	546.404	542.899	538.048	532.625	526.636	520.708	515.306	512.228
145	551.020	549.219	546.404	542.299	537.820	532.984	528.298	523.130	520.619
150	545.742	544.513	542.630	539.801	536.089	532.321	528.443	524.779	523.199
155	533.204	532.487	531.286	529.534	527.098	524.572	521.923	519.570	518.528
160	514.947	514.540	513.808	512.622	511.021	509.496	508.344	506.826	506.895
165	492.832	492.908	492.605	491.922	490.894	490.162	489.686	489.410	489.244
170	470.911	471.008	470.890	470.559	469.952	469.793	469.952	469.662	469.918
175	452.716	452.861	452.957	452.992	452.881	453.047	453.192	452.737	452.950
180	444.519	444.519	444.519	444.519	444.519	444.519	444.519	444.519	444.519

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	187.01	N.A.	3.30
0-30	433.50	N.A.	7.60
0-40	772.97	N.A.	13.50
0-60	1631.55	N.A.	28.50
0-80	2570.6	N.A.	44.90
0-90	2872.46	N.A.	50.20
10-90	2827.64	N.A.	49.40
20-40	585.96	N.A.	10.20
20-50	993.34	N.A.	17.40
40-70	1332.58	N.A.	23.30
60-80	939.05	N.A.	16.40
70-80	465.04	N.A.	8.10
80-90	301.86	N.A.	5.30
90-110	763.79	N.A.	13.30
90-120	1235.32	N.A.	21.60
90-130	1684.00	N.A.	29.40
90-150	2425.13	N.A.	42.40
90-180	2851.33	N.A.	49.80
110-180	2087.54	N.A.	36.50
0-180	5723.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.82
10-20	142.19
20-30	246.49
30-40	339.48
40-50	407.38
50-60	451.20
60-70	474.01
70-80	465.04
80-90	301.86
90-100	300.63
100-110	463.16
110-120	471.53
120-130	448.68
130-140	404.82
140-150	336.31
150-160	243.01
160-170	139.44
170-180	43.75

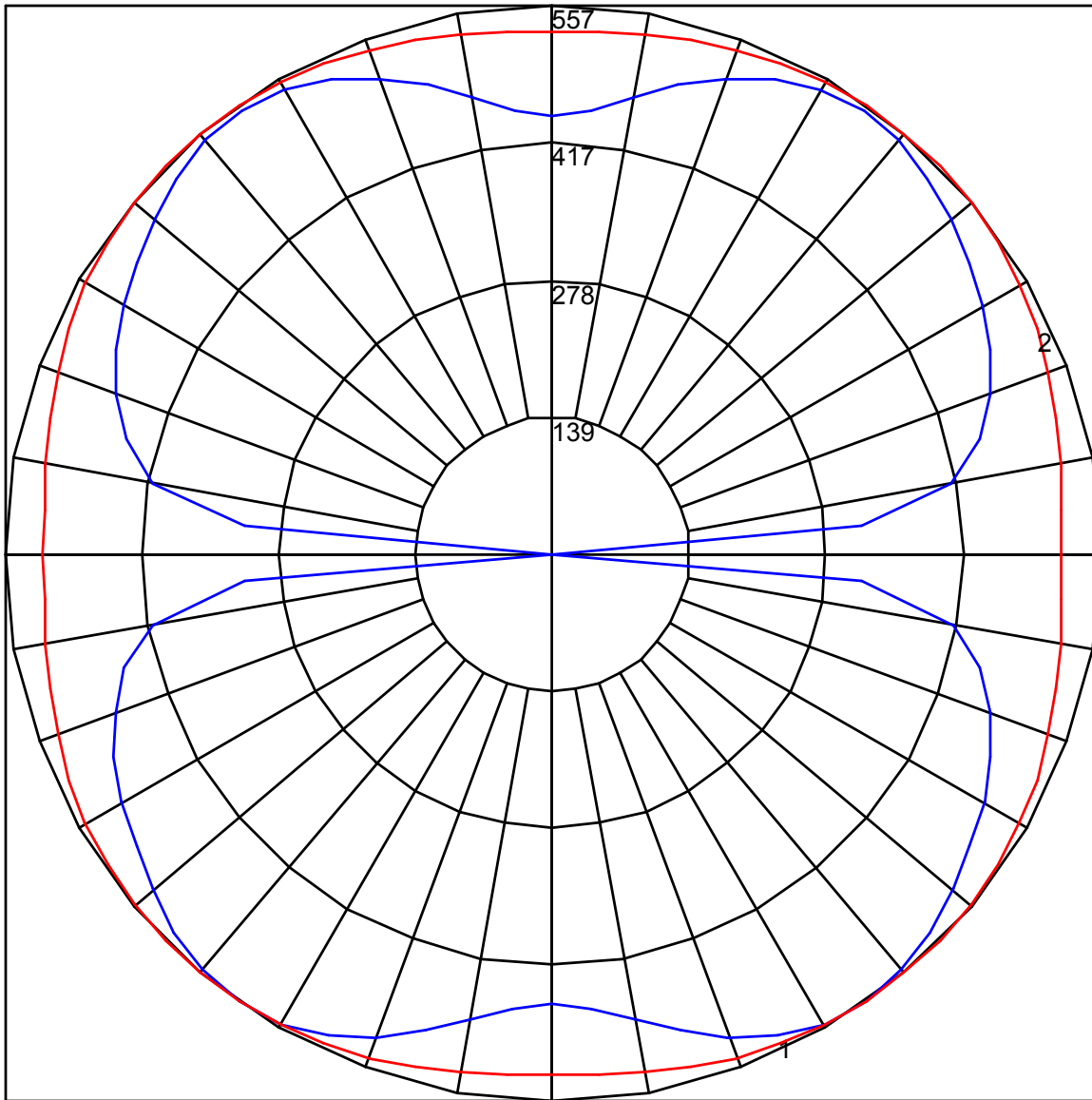
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 556.513 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.)