



## IES INDOOR REPORT

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

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	88
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	3072	3228	3074
55	3505	3672	3488
65	4313	4465	4340
75	5976	5943	6130
85	11514	8057	11990

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	794.112	794.112	794.112	794.112	794.112	794.112	794.112	794.112	794.112	794.112
<b>5</b>	806.964	806.532	807.204	806.736	806.244	806.556	806.712	806.784	806.700	807.000
<b>10</b>	833.316	833.004	833.232	832.968	833.472	834.732	835.524	836.136	836.436	836.988
<b>15</b>	862.176	862.236	862.692	863.544	865.260	867.684	869.640	871.188	872.328	873.264
<b>20</b>	887.688	887.220	889.884	892.224	895.716	899.412	902.892	905.808	908.220	909.888
<b>25</b>	905.232	906.060	909.912	914.568	919.932	926.004	930.684	934.716	937.836	939.876
<b>30</b>	912.288	914.052	920.100	926.700	934.248	942.060	948.876	953.700	957.600	959.928
<b>35</b>	900.768	903.060	911.628	921.192	933.036	944.508	954.408	960.984	965.340	967.788
<b>40</b>	888.180	891.300	900.768	911.412	923.076	933.588	943.488	951.072	958.824	962.388
<b>45</b>	877.272	882.012	892.356	903.780	913.968	922.224	929.820	937.284	942.228	944.760
<b>50</b>	853.428	859.356	869.664	882.588	896.112	906.600	914.904	921.636	923.508	924.216
<b>55</b>	832.836	838.356	850.692	863.484	875.124	884.412	892.692	898.896	902.136	902.952
<b>60</b>	814.332	820.356	832.992	845.400	855.780	864.960	872.532	877.524	880.116	881.856
<b>65</b>	787.020	793.284	805.800	818.904	830.472	839.940	846.792	851.220	854.136	855.792
<b>70</b>	759.612	766.116	779.508	791.376	801.216	808.656	814.176	818.064	821.112	823.608
<b>75</b>	727.860	734.052	745.656	755.100	762.732	768.612	772.836	776.004	779.124	781.812
<b>80</b>	696.360	701.448	707.628	711.012	712.404	712.080	711.324	711.000	712.020	714.468
<b>85</b>	660.876	656.448	639.900	620.448	600.276	580.884	564.012	551.472	544.476	543.612
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	661.524	656.964	639.360	617.472	595.620	575.748	558.912	547.548	541.944	542.088
<b>100</b>	691.896	697.260	703.608	707.220	708.708	708.960	708.504	708.864	710.460	713.604
<b>105</b>	719.784	726.288	738.060	747.936	755.904	762.276	767.316	771.672	775.992	779.724
<b>110</b>	748.500	755.268	768.888	781.536	791.916	800.244	806.880	812.088	816.600	820.392
<b>115</b>	774.828	781.068	794.184	808.152	820.728	831.000	839.040	844.836	849.108	852.324
<b>120</b>	802.584	808.800	821.856	835.092	846.552	856.764	865.572	871.860	875.712	878.124
<b>125</b>	823.104	828.540	841.200	854.724	867.168	877.224	886.308	893.172	897.420	899.040
<b>130</b>	847.188	851.952	863.616	876.492	889.788	901.212	910.104	916.896	919.092	920.016
<b>135</b>	873.084	876.972	888.120	899.484	909.972	918.636	925.980	932.772	937.320	939.300
<b>140</b>	886.116	888.672	897.396	907.944	919.380	929.844	939.000	945.684	952.740	955.284
<b>145</b>	897.276	899.508	908.004	917.268	928.560	939.576	948.576	954.252	957.768	959.280
<b>150</b>	906.936	908.304	913.740	920.436	927.528	934.932	940.848	945.216	948.288	949.548
<b>155</b>	897.372	898.056	901.512	905.904	910.716	915.840	920.052	923.340	925.680	926.952
<b>160</b>	876.576	875.916	877.860	879.936	882.960	886.524	889.584	892.008	893.796	894.924
<b>165</b>	847.584	847.512	847.632	848.580	850.128	852.336	854.076	855.252	855.984	856.632
<b>170</b>	816.504	816.204	816.336	815.712	816.012	817.212	817.944	818.436	818.484	818.976
<b>175</b>	788.856	788.436	789.036	788.520	787.884	787.896	787.800	787.644	787.368	787.440
<b>180</b>	773.076	773.076	773.076	773.076	773.076	773.076	773.076	773.076	773.076	773.076

**Vert.  
Angles**

**Horizontal Angles**

	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>	<b>70</b>	<b>75</b>	<b>80</b>	<b>85</b>	<b>90</b>
<b>0</b>	794.112	794.112	794.112	794.112	794.112	794.112	794.112	794.112	794.112
<b>5</b>	807.204	807.756	808.224	808.488	808.452	809.064	809.484	808.860	809.244
<b>10</b>	837.144	837.600	837.876	837.888	837.420	837.792	838.524	838.296	838.908
<b>15</b>	873.936	874.368	874.392	873.636	872.460	872.040	872.148	872.472	872.568
<b>20</b>	910.920	910.956	910.308	908.748	906.420	904.344	903.696	902.040	902.652
<b>25</b>	940.956	940.620	939.444	937.164	933.504	929.484	925.860	923.268	922.476
<b>30</b>	960.684	959.700	957.348	953.220	947.304	941.208	935.076	930.336	928.668
<b>35</b>	967.848	965.784	961.812	955.572	948.396	940.068	931.980	924.384	921.612
<b>40</b>	961.980	958.872	953.592	945.732	936.564	926.124	915.780	907.308	903.696
<b>45</b>	945.816	942.720	936.600	927.984	917.040	905.964	894.588	883.488	877.872
<b>50</b>	923.352	920.220	914.688	906.456	895.260	882.072	868.848	856.968	850.488
<b>55</b>	900.708	897.228	891.708	884.316	875.076	862.752	849.252	836.028	828.780
<b>60</b>	881.064	878.400	873.108	866.100	857.580	847.104	834.228	820.932	813.360

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	855.564	854.400	851.520	845.952	837.372	826.176	812.604	799.356	791.976
<b>70</b>	824.568	824.592	823.092	819.564	813.840	805.080	793.092	779.412	772.020
<b>75</b>	783.900	785.364	785.916	784.728	780.936	774.876	765.504	753.312	746.592
<b>80</b>	717.972	722.304	727.344	732.228	735.444	735.852	733.368	726.888	721.416
<b>85</b>	549.324	560.892	577.632	598.560	621.372	644.604	666.480	684.372	688.188
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95</b>	548.388	559.896	575.868	595.068	617.004	638.664	660.420	682.608	687.372
<b>100</b>	717.528	721.932	726.768	730.884	733.836	734.220	731.364	725.532	719.556
<b>105</b>	782.712	784.776	785.568	784.308	780.504	774.516	765.528	754.284	746.400
<b>110</b>	822.876	824.136	823.536	820.128	814.440	806.196	794.940	782.124	773.088
<b>115</b>	853.536	853.392	850.824	845.532	837.744	827.436	814.920	802.368	793.140
<b>120</b>	878.016	876.156	871.728	864.732	856.356	846.672	834.720	821.880	812.196
<b>125</b>	897.468	894.444	889.272	881.376	872.472	860.916	848.112	834.972	825.384
<b>130</b>	919.416	916.104	910.212	901.668	890.856	878.208	865.476	853.176	844.512
<b>135</b>	939.780	936.252	929.940	921.072	910.116	899.280	887.916	875.952	868.332
<b>140</b>	954.072	950.268	944.172	935.736	926.304	915.888	905.580	896.184	890.832
<b>145</b>	958.296	955.164	950.268	943.128	935.340	926.928	918.780	909.792	905.424
<b>150</b>	949.116	946.980	943.704	938.784	932.328	925.776	919.032	912.660	909.912
<b>155</b>	927.312	926.064	923.976	920.928	916.692	912.300	907.692	903.600	901.788
<b>160</b>	895.560	894.852	893.580	891.516	888.732	886.080	884.076	881.436	881.556
<b>165</b>	857.100	857.232	856.704	855.516	853.728	852.456	851.628	851.148	850.860
<b>170</b>	818.976	819.144	818.940	818.364	817.308	817.032	817.308	816.804	817.248
<b>175</b>	787.332	787.584	787.752	787.812	787.620	787.908	788.160	787.368	787.740
<b>180</b>	773.076	773.076	773.076	773.076	773.076	773.076	773.076	773.076	773.076

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	325.24	N.A.	3.30
0-30	753.91	N.A.	7.60
0-40	1344.3	N.A.	13.50
0-60	2837.48	N.A.	28.50
0-80	4470.61	N.A.	44.90
0-90	4995.58	N.A.	50.20
10-90	4917.63	N.A.	49.40
20-40	1019.06	N.A.	10.20
20-50	1727.55	N.A.	17.40
40-70	2317.53	N.A.	23.30
60-80	1633.13	N.A.	16.40
70-80	808.77	N.A.	8.10
80-90	524.97	N.A.	5.30
90-110	1328.33	N.A.	13.30
90-120	2148.38	N.A.	21.60
90-130	2928.69	N.A.	29.40
90-150	4217.61	N.A.	42.40
90-180	4958.83	N.A.	49.80
110-180	3630.5	N.A.	36.50
0-180	9954.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.95
10-20	247.29
20-30	428.67
30-40	590.39
40-50	708.49
50-60	784.69
60-70	824.36
70-80	808.77
80-90	524.97
90-100	522.83
100-110	805.50
110-120	820.05
120-130	780.31
130-140	704.04
140-150	584.88
150-160	422.63
160-170	242.50
170-180	76.09

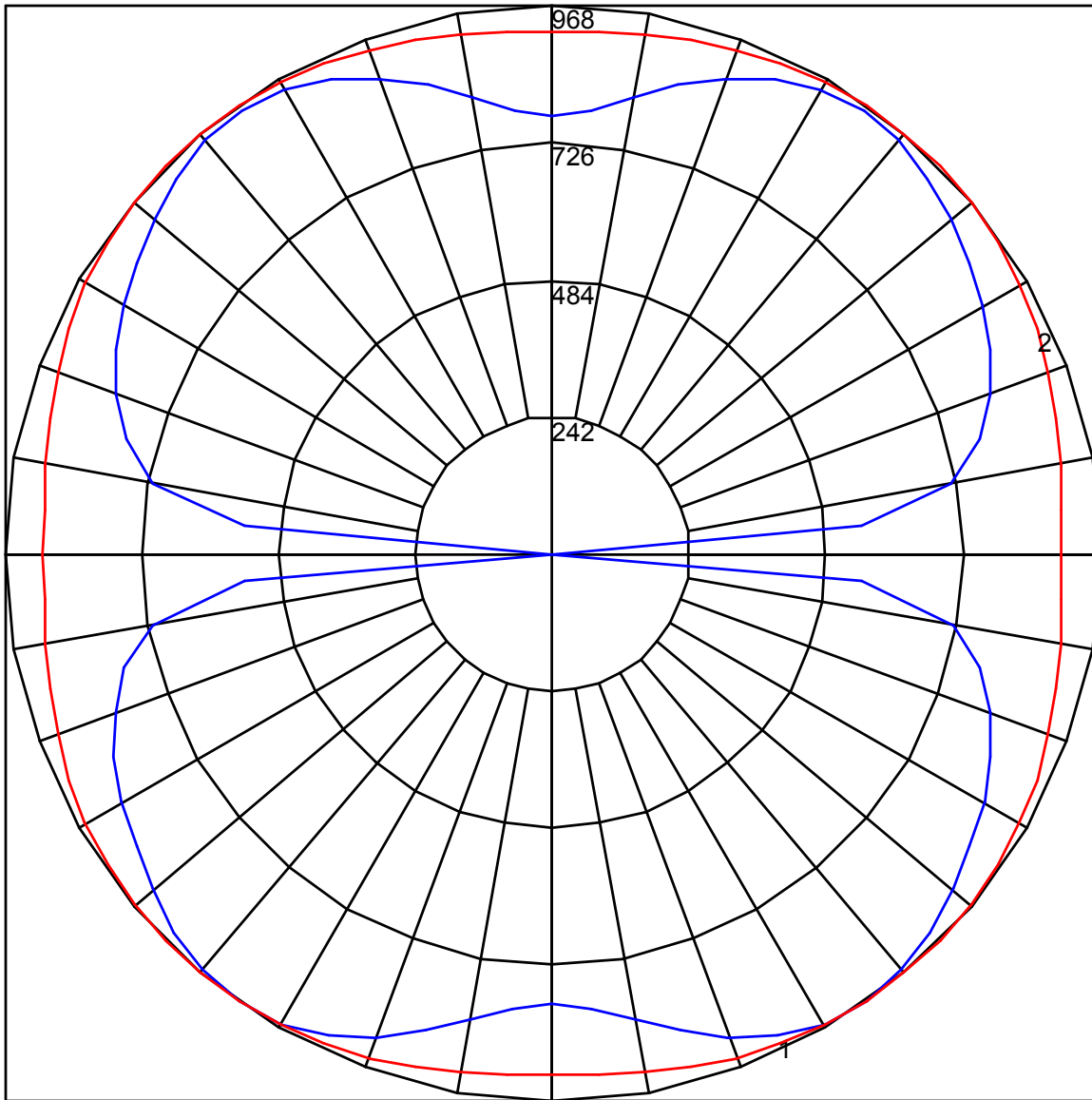
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 967.848 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.)