



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : RKDIS22-LED20FRDMV35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA000617-001  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] RKDIS22-LED20FRDMV35  
 [LUMINAIRE] Catalog Number: RKDIS22-LED20FRDMV35  
 [MORE] 2x2 Retrofit kit installed in Mobern recessed RG22 housing with side bracket mounting rails,  
 [MORE] formed white steel housing with frosted plastic enclosure. 96 LEDs, three Universal  
 [MORE] Lighting Technologies Everline M10CC835D32N2S boards with 32 LEDs each. One Osram  
 [MORE] Optotronic OTi 20/120-277/700 DIM-1 L AUX LED driver output set to 704mA.  
 [MORE] 120.0Vac, 60.0Hz, 0.1732A, 20.78W, 0.996PF, 5.02%THD(i)  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 9.5m.  
 [MORE] This IES file was extrapolated from LLIA000617-001  
 [DATE] This file created: Friday, May 26, 2017  
 [ISSUE DATE] Friday, May 26, 2017

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.49 m
Luminous Width (90-270)	0.57 m
Luminous Height	0.00 m

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2641	3035	3465
55	2437	3029	3564
65	2209	2955	3690
75	1917	2848	3737
85	1378	1942	1812

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	878.384	878.384	878.384	878.384	878.384
0.5	874.399	875.148	883.641	879.218	876.604
1.0	874.343	875.035	883.556	879.091	876.448
1.5	874.032	874.823	883.330	878.935	876.448
2.0	873.537	874.555	883.161	878.836	876.547
2.5	873.226	874.131	882.737	878.554	876.250
3.0	872.718	873.594	882.284	878.172	875.968
3.5	871.983	873.226	881.804	877.876	875.855
4.0	871.206	872.435	881.083	877.466	875.417
4.5	870.132	871.757	880.504	876.957	875.106
5.0	869.171	870.782	879.698	876.293	874.484
5.5	867.984	869.793	878.836	875.784	874.173
6.0	866.783	868.789	877.833	875.035	873.608
6.5	865.412	867.517	876.844	874.371	872.930
7.0	863.942	866.274	875.699	873.537	872.322
7.5	862.374	864.931	874.498	872.732	871.615
8.0	860.593	863.518	873.170	871.601	870.838
8.5	858.954	861.922	871.898	870.739	869.849
9.0	857.103	860.297	870.245	869.680	869.157
9.5	855.280	858.643	868.775	868.507	868.309
10.0	853.344	856.750	867.178	867.390	867.122
10.5	851.436	854.983	865.454	866.133	866.175
11.0	849.147	853.189	863.843	864.790	864.974
11.5	846.674	851.253	862.006	863.419	863.858
12.0	843.820	849.105	860.297	861.992	862.628
12.5	841.220	846.731	858.417	860.353	861.342
13.0	838.408	844.131	856.651	858.855	859.957
13.5	835.567	841.531	855.139	857.103	858.657
14.0	832.755	838.775	853.711	855.435	857.272
14.5	829.660	836.005	852.072	853.726	855.789
15.0	826.594	832.854	849.783	851.945	854.263
15.5	823.358	829.562	846.745	849.981	852.751
16.0	820.221	826.128	843.226	848.087	851.125
16.5	816.900	822.567	839.962	845.982	849.373
17.0	813.325	819.105	836.853	844.074	847.480
17.5	809.835	815.770	833.914	841.954	845.770
18.0	806.259	812.336	830.918	839.821	843.947
18.5	802.600	808.874	827.922	837.574	842.068
19.0	798.756	805.228	824.828	835.214	840.188
19.5	794.955	801.681	821.789	832.925	838.040
20.0	790.927	798.007	818.610	830.664	836.019
20.5	787.013	794.262	815.445	828.134	833.999
21.0	782.887	790.404	812.067	825.676	831.837
21.5	778.775	786.363	808.803	823.231	829.646
22.0	774.323	782.420	805.242	820.532	827.414
22.5	770.169	778.365	801.893	817.988	825.167
23.0	765.732	774.140	798.403	815.091	822.708
23.5	761.111	769.999	794.601	812.477	820.164
24.0	756.660	765.689	791.069	809.722	817.861
24.5	751.926	761.295	787.352	806.910	815.219
25.0	747.135	756.914	783.579	804.097	812.774
25.5	742.345	752.350	779.736	801.229	810.287
26.0	737.512	747.870	775.793	798.191	807.574
26.5	732.665	743.249	771.808	795.082	804.776

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**CANDELA TABULATION - (Cont.)**

27.0	727.649	738.515	767.851	791.874	802.105
27.5	722.703	733.781	763.739	788.751	799.251
28.0	717.503	728.920	759.514	785.388	796.509
28.5	712.557	723.989	755.374	782.081	793.584
29.0	707.102	719.212	751.163	778.676	790.786
29.5	701.676	714.055	746.853	775.327	787.705
30.0	696.546	709.052	742.458	771.836	784.752
30.5	690.993	704.022	738.120	768.318	781.756
31.0	685.468	698.807	733.570	764.686	778.619
31.5	680.069	693.621	729.019	761.210	775.539
32.0	674.474	688.294	724.625	757.465	772.430
32.5	668.779	682.952	719.947	753.720	769.208
33.0	663.254	677.526	715.298	750.131	766.028
33.5	657.460	672.142	710.621	746.457	762.694
34.0	651.723	666.645	705.774	742.571	759.443
34.5	645.957	661.148	701.082	738.939	756.335
35.0	639.994	655.637	696.292	735.082	753.056
35.5	634.115	649.886	691.374	731.181	749.764
36.0	628.265	644.205	686.513	727.324	746.429
36.5	622.302	638.595	681.497	723.466	743.094
37.0	616.112	632.872	676.636	719.580	739.674
37.5	610.206	627.163	671.633	715.750	736.283
38.0	604.172	621.355	666.532	711.794	733.160
38.5	597.982	615.462	661.459	707.795	729.500
39.0	591.793	609.669	656.386	703.852	725.995
39.5	585.688	603.790	651.313	699.839	722.463
40.0	579.414	597.728	646.056	695.882	718.986
40.5	573.324	591.793	640.927	691.855	715.242
41.0	567.205	585.844	635.811	687.842	711.568
41.5	560.804	579.725	630.399	683.673	707.752
42.0	554.558	573.804	625.170	679.575	703.682
42.5	548.284	567.770	619.857	675.307	699.584
43.0	541.910	561.553	614.516	671.139	695.529
43.5	535.495	555.589	609.287	666.772	691.049
44.0	529.108	549.442	604.045	662.321	686.584
44.5	522.706	543.281	598.576	657.615	682.104
45.0	516.291	537.106	593.319	652.980	677.370
45.5	510.158	530.987	588.020	648.190	672.834
46.0	503.474	524.755	582.608	643.202	667.691
46.5	497.200	518.510	577.393	638.171	662.759
47.0	490.700	512.433	572.066	633.056	657.644
47.5	484.199	506.145	566.654	627.714	652.472
48.0	477.699	499.970	561.341	622.316	647.172
48.5	471.227	493.540	555.872	616.734	641.789
49.0	464.727	487.308	550.460	611.280	636.292
49.5	458.269	481.161	545.217	605.627	630.766
50.0	451.712	474.859	539.777	599.904	625.298
50.5	445.099	468.613	534.167	594.026	619.419
51.0	438.556	462.310	528.613	588.232	613.908
51.5	432.141	455.994	523.017	582.297	608.227
52.0	425.655	449.663	517.125	576.291	602.264
52.5	419.225	443.290	511.218	570.173	596.414
53.0	412.781	437.143	505.283	564.124	590.267
53.5	406.182	430.827	499.235	557.921	584.261
54.0	399.583	424.510	493.031	551.619	577.888
54.5	393.182	418.208	486.757	545.429	571.685

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**CANDELA TABULATION - (Cont.)**

55.0	386.455	411.933	480.285	539.070	565.241
55.5	380.209	405.702	473.954	532.641	559.136
56.0	373.624	399.456	467.567	526.197	552.664
56.5	367.166	393.125	460.883	519.499	546.065
57.0	360.595	386.865	454.326	512.885	539.565
57.5	354.194	380.577	447.642	506.286	532.937
58.0	347.581	374.373	440.973	499.517	526.409
58.5	341.250	368.212	434.345	492.763	519.810
59.0	334.736	362.037	427.605	485.881	513.140
59.5	328.235	355.748	420.808	478.886	506.541
60.0	321.876	349.672	414.095	472.273	500.012
60.5	315.305	343.610	407.524	465.391	493.370
61.0	308.904	337.322	400.501	458.410	486.616
61.5	302.588	331.316	393.718	451.585	479.720
62.0	296.130	325.240	386.893	444.816	472.838
62.5	289.799	319.093	380.011	437.779	466.013
63.0	283.426	313.285	373.115	430.897	459.060
63.5	276.982	307.265	366.276	423.832	452.376
64.0	270.694	301.344	359.295	416.710	445.424
64.5	264.490	295.536	352.357	409.658	438.358
65.0	258.160	289.601	345.320	402.748	431.109
65.5	251.843	283.497	338.226	395.683	424.100
66.0	245.555	277.660	331.146	388.631	417.105
66.5	239.422	271.542	324.307	381.425	409.687
67.0	233.077	265.338	317.171	374.119	402.211
67.5	226.944	259.106	310.176	367.011	394.821
68.0	220.811	252.691	303.238	359.649	387.416
68.5	214.594	246.290	296.144	352.230	379.969
69.0	208.404	239.874	289.149	344.797	372.776
69.5	202.271	233.331	282.112	337.251	365.033
70.0	196.110	226.760	274.862	329.790	357.162
70.5	190.246	220.260	267.967	322.442	349.220
71.0	184.184	213.661	261.028	314.853	341.165
71.5	178.093	206.977	253.864	307.152	332.333
72.0	172.243	200.646	246.897	299.055	323.600
72.5	166.195	194.160	239.959	290.986	314.641
73.0	160.288	187.505	232.710	282.493	305.668
73.5	154.367	181.146	225.503	273.958	296.469
74.0	148.715	174.758	218.239	265.239	287.072
74.5	142.766	168.202	210.962	256.436	277.335
75.0	137.142	161.970	203.798	247.773	267.401
75.5	131.447	155.484	196.492	238.744	257.142
76.0	125.823	149.054	188.946	229.262	246.827
76.5	120.184	142.582	181.471	219.766	236.794
77.0	114.560	136.223	173.755	210.383	226.916
77.5	109.021	129.864	165.941	200.731	216.657
78.0	103.609	123.434	158.267	191.560	206.341
78.5	98.182	117.217	150.439	182.177	195.814
79.0	92.601	110.914	142.497	172.695	184.848
79.5	87.485	104.767	134.640	163.058	173.953
80.0	82.045	98.635	126.685	153.166	162.592
80.5	76.774	92.488	118.842	142.766	150.792
81.0	71.559	86.439	111.112	132.408	138.851
81.5	66.571	80.420	103.538	121.696	126.840
82.0	61.428	74.372	95.653	110.773	114.659
82.5	56.722	68.394	87.867	99.751	102.563

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**CANDELA TABULATION - (Cont.)**

83.0	51.705	62.374	79.840	88.828	90.410
83.5	47.056	56.637	71.743	77.509	78.385
84.0	42.407	50.730	63.505	66.811	66.585
84.5	37.829	45.021	55.182	56.100	54.913
85.0	33.194	39.312	46.788	45.573	43.665
85.5	28.728	33.830	38.662	35.540	32.855
86.0	24.178	28.389	30.721	25.874	22.327
86.5	19.967	22.935	22.709	16.675	12.633
87.0	15.770	17.636	15.671	8.733	4.903
87.5	11.700	12.591	9.383	3.448	2.204
88.0	7.970	8.125	4.819	2.459	1.583
88.5	4.776	4.691	2.854	1.526	1.060
89.0	1.936	2.035	1.314	0.890	0.791
89.5	0.268	0.325	0.382	0.339	0.339
90.0	0.170	0.099	0.141	0.155	0.113
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDIS22-LED20FRDMV35.IES**

**CANDELA TABULATION - (Cont.)**

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDIS22-LED20FRDMV35.IES**

**CANDELA TABULATION - (Cont.)**

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDIS22-LED20FRDMV35.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	321.01	N.A.	12.30
0-30	681.02	N.A.	26.10
0-40	1116.57	N.A.	42.80
0-60	2001.65	N.A.	76.70
0-80	2557.42	N.A.	98.00
0-90	2610.26	N.A.	100.00
10-90	2527.15	N.A.	96.80
20-40	795.56	N.A.	30.50
20-50	1254.57	N.A.	48.10
40-70	1226.79	N.A.	47.00
60-80	555.77	N.A.	21.30
70-80	214.05	N.A.	8.20
80-90	52.84	N.A.	2.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2610.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.12
10-20	237.89
20-30	360.01
30-40	435.55
40-50	459.01
50-60	426.06
60-70	341.72
70-80	214.05
80-90	52.84
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

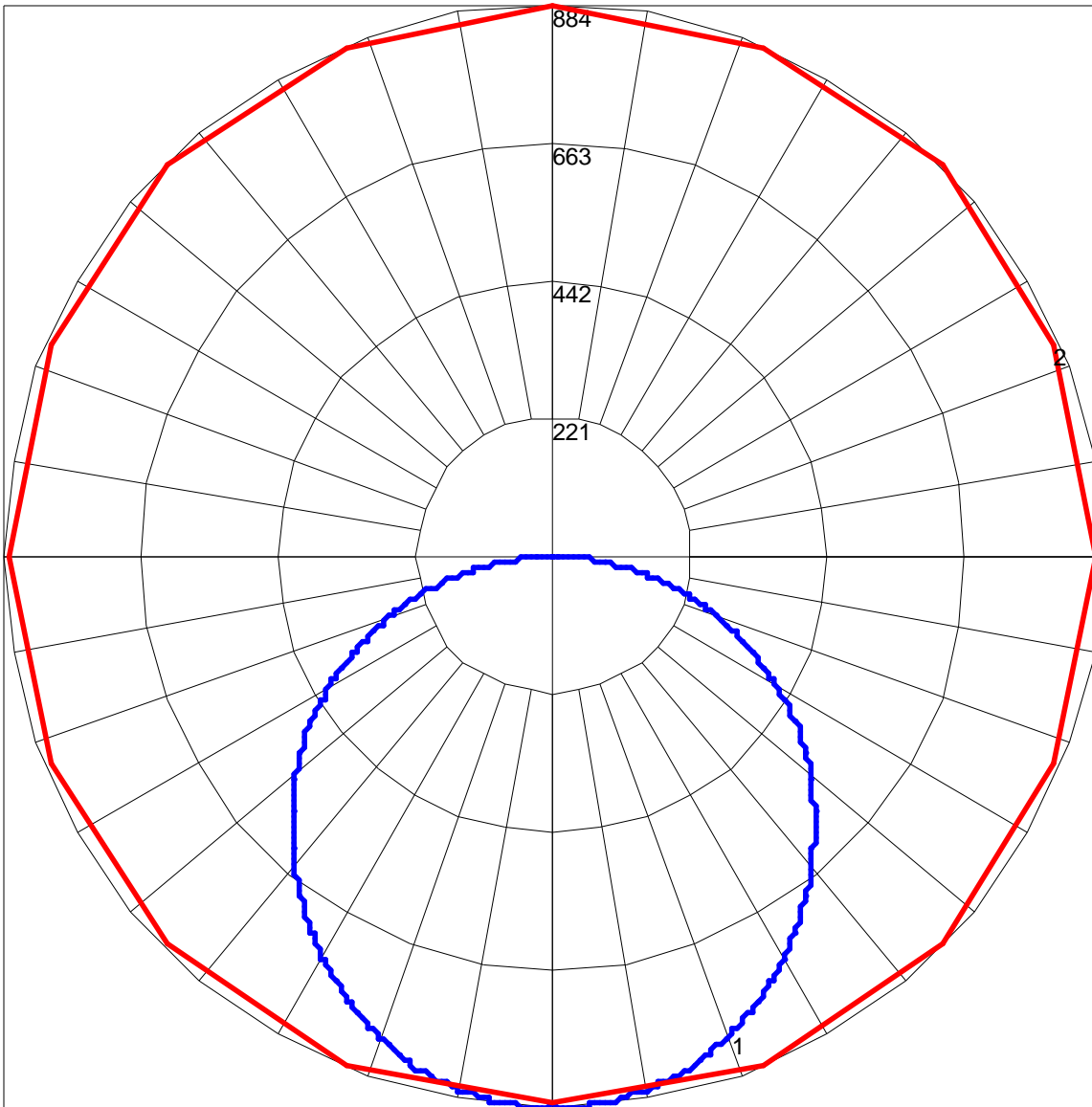
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDIS22-LED20FRDMV35.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 883.641 Located At Horizontal Angle = 45, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)