



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDISE24-LED21FRDMV50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLIA001002-009A-Extrapolated  
 [TESTLAB] LightLab International Allentown, LLC  
 [MANUFAC] Mobern Lighting Co., 8200 Stayton Drive, Jessup, MD 20794, USA  
 [LUMCAT] RKDISE24-LED21FRDMV50  
 [LUMINAIRE] Catalog Number: RKDISE24-LED21FRDMV50  
 [MORE] Recessed retrofit kit installed in a Mobern Lighting RG24-232MV 2x4 recessed housing,  
 [MORE] formed white enamel steel housing/reflector, textured translucent white plastic center enclosure.  
 [MORE] 128 white LEDs, four ULT Everline M10CC850D32N2W LED boards with 32 LEDs each.  
 [MORE] One ULT Everline D10CC30UNVPW-C LED driver programmed to 400mA.  
 [MORE] 120.0Vac, 60.00Hz, 0.1822A, 21.51W, 0.984PF, 7.1%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 created by LightLab/LSA Report program version 3.820a.  
 [DATE] This file created: Monday March 23, 2020  
 [ISSUEDATE] Monday March 23, 2020

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	21.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.17 m
Luminous Width (90-270)	0.50 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	1636	1748	1839
55	1516	1670	1825
65	1362	1621	1900
75	1115	1699	1924
85	669	948	769

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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	1125.803	1125.803	1125.803	1125.803	1125.803
0.5	1117.002	1128.618	1128.154	1127.410	1120.626
1.0	1116.819	1128.521	1127.960	1127.237	1120.540
1.5	1116.463	1128.219	1127.680	1127.011	1120.400
2.0	1115.924	1127.777	1127.248	1126.709	1120.249
2.5	1115.320	1127.140	1126.741	1126.191	1119.828
3.0	1114.522	1126.482	1126.051	1125.641	1119.386
3.5	1113.681	1125.630	1125.296	1124.983	1118.976
4.0	1112.807	1124.692	1124.369	1124.196	1118.264
4.5	1111.772	1123.700	1123.441	1123.322	1117.596
5.0	1110.575	1122.524	1122.384	1122.384	1116.701
5.5	1109.151	1121.230	1121.219	1121.284	1115.859
6.0	1107.781	1119.925	1120.044	1120.141	1114.867
6.5	1106.077	1118.383	1118.469	1118.804	1113.724
7.0	1104.395	1116.808	1117.024	1117.402	1112.559
7.5	1102.605	1114.953	1115.514	1115.956	1111.297
8.0	1100.696	1113.077	1113.767	1114.414	1109.863
8.5	1098.528	1111.114	1111.880	1112.678	1108.428
9.0	1096.328	1108.978	1109.917	1110.920	1106.811
9.5	1094.052	1106.746	1107.889	1109.140	1105.204
10.0	1091.615	1104.373	1105.754	1107.177	1103.413
10.5	1089.005	1101.968	1103.478	1105.171	1101.558
11.0	1086.233	1099.250	1101.062	1102.982	1099.585
11.5	1083.526	1096.586	1098.582	1100.717	1097.568
12.0	1080.538	1093.718	1096.015	1098.301	1095.357
12.5	1077.432	1090.881	1093.340	1095.907	1093.222
13.0	1074.272	1087.678	1090.439	1093.351	1090.838
13.5	1071.145	1084.572	1087.581	1090.622	1088.465
14.0	1067.758	1081.390	1084.647	1087.991	1086.006
14.5	1064.296	1078.004	1081.412	1085.079	1083.289
15.0	1060.737	1074.391	1078.252	1082.081	1080.657
15.5	1056.984	1070.756	1074.855	1079.050	1077.875
16.0	1053.134	1067.014	1071.554	1075.922	1074.919
16.5	1049.143	1063.131	1067.898	1072.665	1071.964
17.0	1045.110	1059.303	1064.307	1069.397	1068.858
17.5	1040.893	1055.107	1060.554	1065.849	1065.731
18.0	1036.654	1050.998	1056.757	1062.409	1062.484
18.5	1032.383	1046.695	1052.907	1058.871	1059.109
19.0	1027.875	1042.316	1048.744	1055.107	1055.776
19.5	1023.410	1037.884	1044.657	1051.322	1052.131
20.0	1018.665	1033.235	1040.440	1047.385	1048.464
20.5	1013.887	1028.565	1036.126	1043.373	1044.905
21.0	1009.012	1023.745	1031.650	1039.232	1040.882
21.5	1003.986	1018.816	1027.239	1035.166	1037.075
22.0	998.820	1013.779	1022.569	1030.701	1033.052
22.5	993.687	1008.807	1017.899	1026.430	1029.029
23.0	988.564	1003.641	1013.165	1022.041	1024.845
23.5	983.139	998.238	1008.290	1017.468	1020.531
24.0	977.725	992.986	1003.318	1012.819	1016.206
24.5	972.020	987.345	998.152	1008.063	1011.806
25.0	966.530	981.856	993.104	1003.242	1007.254
25.5	960.577	976.096	987.755	998.314	1002.563
26.0	954.839	970.370	982.470	993.320	997.861
26.5	948.886	964.470	977.002	988.154	993.061

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**CANDELA TABULATION - (Cont.)**

27.0	942.976	958.506	971.556	983.042	988.186
27.5	936.915	952.650	966.099	977.876	983.344
28.0	930.648	946.448	960.372	972.462	978.264
28.5	924.426	940.269	954.656	967.123	973.195
29.0	917.944	933.841	948.756	961.558	967.814
29.5	911.559	927.586	942.868	955.993	962.550
30.0	905.023	921.039	936.796	950.148	957.233
30.5	898.477	914.590	930.821	944.550	951.733
31.0	891.704	907.827	924.577	938.586	946.190
31.5	884.942	901.227	918.407	932.849	940.452
32.0	878.266	894.573	912.271	926.863	935.027
32.5	871.234	887.573	905.714	920.780	929.052
33.0	864.288	880.768	899.275	914.676	923.196
33.5	857.127	873.682	892.782	908.388	917.275
34.0	849.923	866.629	886.106	902.079	911.171
34.5	842.826	859.424	879.387	895.683	905.120
35.0	835.536	852.123	872.658	889.310	898.897
35.5	828.245	845.016	865.960	882.741	892.664
36.0	820.771	837.671	859.004	876.184	886.387
36.5	813.588	830.380	852.220	869.627	880.034
37.0	805.888	822.842	845.080	862.865	873.499
37.5	798.370	815.357	838.124	856.243	867.082
38.0	790.584	807.721	830.876	849.189	860.363
38.5	782.991	800.150	823.683	842.384	853.816
39.0	775.226	792.396	816.338	835.331	847.011
39.5	767.364	784.727	809.123	828.364	840.356
40.0	759.437	776.833	801.628	821.138	833.389
40.5	751.661	769.035	794.272	814.117	826.573
41.0	743.744	761.313	786.809	806.945	819.628
41.5	735.753	753.365	779.238	799.783	812.714
42.0	727.750	745.481	771.634	792.568	805.758
42.5	719.597	737.338	764.020	785.137	798.586
43.0	711.594	729.390	756.331	777.868	791.468
43.5	703.344	721.322	748.501	770.491	784.242
44.0	695.244	713.234	740.757	763.017	777.124
44.5	686.918	705.091	732.862	755.511	769.736
45.0	678.700	697.078	725.108	748.134	762.586
45.5	670.644	688.957	717.267	740.714	755.392
46.0	662.177	680.631	709.189	733.143	748.004
46.5	653.841	672.531	701.262	725.604	740.638
47.0	645.590	664.119	693.141	717.925	733.197
47.5	637.307	655.955	685.160	710.354	725.895
48.0	628.927	647.585	676.974	702.632	718.443
48.5	620.483	639.292	669.058	695.072	710.969
49.0	612.081	630.869	660.797	687.393	703.484
49.5	603.712	622.564	652.600	679.779	696.096
50.0	595.300	614.281	644.576	672.229	688.655
50.5	586.833	605.750	636.261	664.496	681.224
51.0	578.335	597.403	628.129	656.839	673.685
51.5	569.793	588.883	619.706	649.138	666.146
52.0	561.273	580.513	611.617	641.535	658.802
52.5	552.720	571.982	603.216	633.791	651.112
53.0	544.308	563.656	595.116	626.296	643.714
53.5	535.637	555.028	586.726	618.487	636.186
54.0	527.246	546.670	578.561	610.927	628.787
54.5	518.802	538.247	570.332	603.410	621.335

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55.0	510.109	529.673	561.963	595.720	613.936
55.5	501.513	521.164	553.831	588.203	606.602
56.0	492.928	512.589	545.441	580.567	599.171
56.5	484.462	504.123	537.341	573.018	592.064
57.0	475.867	495.484	529.058	565.382	584.838
57.5	467.249	487.018	520.926	557.962	577.752
58.0	458.654	478.336	512.687	550.510	570.645
58.5	450.036	469.924	504.598	543.230	563.613
59.0	441.387	461.350	496.552	535.982	556.668
59.5	432.888	452.711	488.377	528.842	549.701
60.0	424.131	444.245	480.396	521.724	542.766
60.5	415.417	435.531	472.221	514.639	535.540
61.0	406.940	427.075	464.294	507.596	528.692
61.5	398.128	418.350	456.238	500.467	521.466
62.0	389.565	409.938	448.332	493.381	514.455
62.5	380.851	401.180	440.136	486.199	507.100
63.0	372.180	392.822	432.425	479.188	500.057
63.5	363.606	384.323	424.670	472.167	492.918
64.0	355.010	375.879	416.980	465.006	485.702
64.5	346.382	367.402	409.323	457.856	478.423
65.0	337.549	358.914	401.741	450.630	471.078
65.5	328.964	350.502	394.300	443.458	463.841
66.0	320.217	341.960	386.869	436.221	456.259
66.5	311.794	333.612	379.643	428.963	448.969
67.0	302.994	325.103	372.298	421.521	441.408
67.5	294.301	316.863	365.169	414.360	433.999
68.0	285.964	308.710	358.051	407.101	426.514
68.5	277.218	300.351	350.696	399.638	418.857
69.0	268.773	292.306	343.599	392.337	411.394
69.5	260.371	284.066	336.352	384.690	403.488
70.0	251.894	276.010	329.244	377.335	395.788
70.5	243.342	267.867	322.062	369.753	387.936
71.0	234.940	260.005	314.965	362.225	380.139
71.5	226.442	251.927	307.739	354.546	371.899
72.0	218.288	244.162	300.567	346.943	363.390
72.5	210.027	236.396	293.611	339.296	353.931
73.0	201.712	228.664	286.374	331.056	343.459
73.5	193.677	220.931	279.429	322.569	331.919
74.0	185.491	213.317	272.203	312.916	319.214
74.5	177.435	205.864	265.171	302.411	306.154
75.0	169.325	198.325	257.912	290.764	292.166
75.5	161.527	191.110	250.891	278.652	277.811
76.0	153.535	183.863	243.461	265.570	262.733
76.5	145.846	177.133	236.256	252.186	247.839
77.0	138.307	170.532	228.610	238.392	232.881
77.5	130.660	163.738	220.489	223.886	217.566
78.0	123.251	157.267	211.375	209.553	202.866
78.5	115.799	150.666	201.324	195.004	188.166
79.0	108.540	144.249	190.905	180.767	174.361
79.5	101.347	137.714	179.484	166.488	160.459
80.0	94.412	131.307	167.620	152.888	147.463
80.5	87.477	124.912	155.088	139.633	134.834
81.0	80.909	118.657	142.470	127.015	122.723
81.5	74.266	112.423	129.700	114.979	111.183
82.0	68.032	106.124	116.802	103.126	99.815
82.5	61.809	99.783	104.302	92.028	88.944

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**CANDELA TABULATION - (Cont.)**

83.0	55.920	93.031	91.964	81.179	78.299
83.5	50.107	85.838	80.208	70.868	68.355
84.0	44.574	77.620	69.078	60.946	58.217
84.5	39.290	69.089	58.541	51.412	48.802
85.0	34.178	59.824	48.489	42.083	39.301
85.5	29.508	50.388	39.398	33.369	30.511
86.0	25.205	40.961	31.007	24.903	21.991
86.5	20.826	31.740	22.832	16.674	13.492
87.0	16.976	23.598	15.584	9.189	6.169
87.5	13.395	16.178	8.833	3.473	2.254
88.0	10.257	10.192	3.839	1.974	1.337
88.5	7.258	5.446	2.103	1.305	1.025
89.0	4.368	2.567	1.262	0.787	0.572
89.5	1.445	0.992	0.453	0.356	0.377
90.0	0.194	0.151	0.140	0.140	0.226
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 : RKDISE24-LED21FRDMV50.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 : RKDISE24-LED21FRDMV50.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 : RKDISE24-LED21FRDMV50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	410.03	N.A.	12.90
0-30	866.64	N.A.	27.20
0-40	1410.93	N.A.	44.30
0-60	2471.66	N.A.	77.60
0-80	3125.91	N.A.	98.10
0-90	3184.88	N.A.	100.00
10-90	3078.47	N.A.	96.70
20-40	1000.91	N.A.	31.40
20-50	1558.45	N.A.	48.90
40-70	1460.82	N.A.	45.90
60-80	654.25	N.A.	20.50
70-80	254.16	N.A.	8.00
80-90	58.97	N.A.	1.90
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	3184.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	106.41
10-20	303.62
20-30	456.62
30-40	544.29
40-50	557.55
50-60	503.18
60-70	400.09
70-80	254.16
80-90	58.97
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

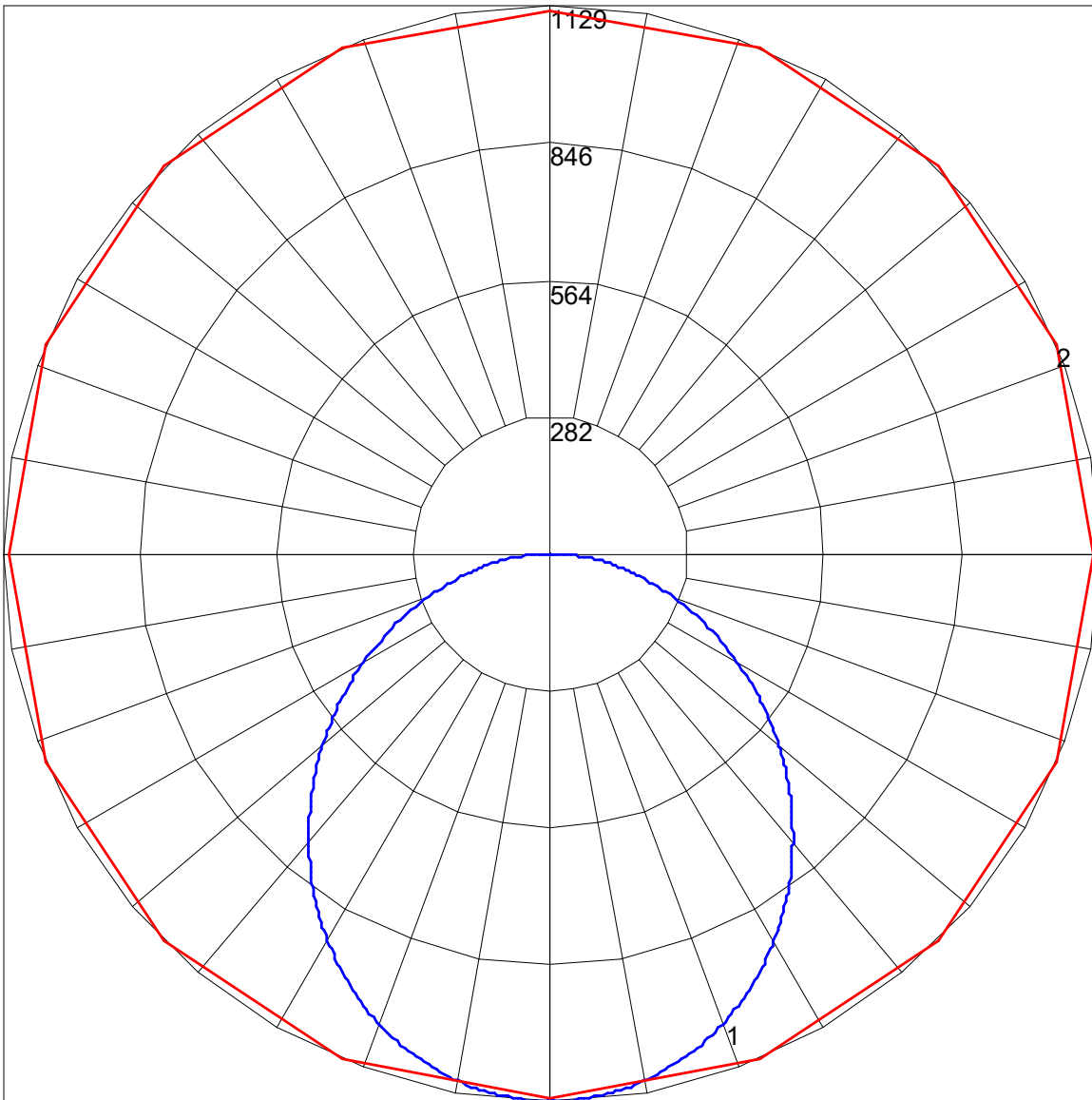
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RKDISE24-LED21FRDMV50.IES**

**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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1128.618 Located At Horizontal Angle = 22.5, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)