



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS22-LED20DMVFR30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] RDIS22-LED20DMVFR30  
 [TESTLAB] Intertek  
 [ISSUE DATE] 6/22/2015  
 [MANUFAC] Mobern Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1995
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	20.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1564	1849	2095
55	1432	1846	2218
65	1286	1866	2409
75	1120	1932	2652
85	912	1596	1891

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	662.61	662.61	662.61	662.61	662.61	662.61	662.61	662.61	662.61	662.61
<b>2.5</b>	661.58	662.58	662.18	660.82	661.35	661.77	661.43	661.90	662.67	664.14
<b>5.0</b>	658.32	659.41	659.51	658.56	659.31	659.77	659.52	659.92	660.61	662.48
<b>7.5</b>	652.77	654.12	655.10	655.03	656.02	656.38	655.72	655.83	656.49	659.04
<b>10.0</b>	645.18	646.90	648.97	650.13	651.45	651.66	650.19	649.78	649.87	653.39
<b>12.5</b>	635.37	637.77	641.35	644.12	645.82	645.71	643.25	641.78	641.20	645.63
<b>15.0</b>	623.66	627.00	632.56	637.20	639.44	638.70	634.76	631.89	630.72	636.05
<b>17.5</b>	610.42	614.69	622.74	629.69	632.57	630.83	624.95	620.49	618.38	624.83
<b>20.0</b>	595.61	600.84	611.75	621.49	625.17	622.08	613.80	607.56	604.07	611.95
<b>22.5</b>	579.42	585.49	599.36	612.50	617.12	612.62	601.39	592.81	587.79	597.43
<b>25.0</b>	560.47	568.52	585.63	602.26	607.90	602.19	587.54	576.09	569.97	581.31
<b>27.5</b>	539.15	550.08	570.92	590.85	597.61	590.41	572.24	558.05	550.80	563.89
<b>30.0</b>	517.27	530.33	555.22	578.67	586.61	577.51	555.85	538.89	530.49	545.22
<b>32.5</b>	495.27	509.70	538.79	566.08	575.07	564.01	538.73	518.61	509.08	525.63
<b>35.0</b>	473.30	488.68	521.85	552.87	563.04	550.13	520.89	497.30	486.71	505.18
<b>37.5</b>	451.15	467.22	504.31	538.84	550.34	535.22	502.22	475.15	463.69	483.96
<b>40.0</b>	428.17	445.23	485.94	523.96	536.66	519.47	482.76	452.57	440.14	462.11
<b>42.5</b>	403.46	422.53	466.72	508.16	521.88	502.82	462.50	429.29	416.10	439.58
<b>45.0</b>	377.82	399.29	446.60	491.48	506.03	485.32	441.59	405.35	391.69	416.30
<b>47.5</b>	352.78	376.01	425.95	473.94	489.43	467.14	420.33	381.17	367.00	392.77
<b>50.0</b>	328.62	352.73	404.98	455.32	472.14	448.09	398.97	357.09	342.36	369.40
<b>52.5</b>	304.92	329.33	383.61	435.97	453.96	428.22	377.35	333.15	317.66	346.04
<b>55.0</b>	280.55	305.86	361.71	415.81	434.54	407.60	355.26	309.13	292.89	322.54
<b>57.5</b>	255.69	282.67	339.29	394.61	413.89	386.03	332.48	285.25	268.26	298.81
<b>60.0</b>	231.40	259.77	316.39	372.63	392.70	363.80	309.33	261.47	244.09	275.07
<b>62.5</b>	208.13	237.05	293.04	350.29	370.79	341.01	285.98	238.10	220.41	251.65
<b>65.0</b>	185.61	214.38	269.40	327.01	347.78	317.70	262.52	215.03	196.89	228.60
<b>67.5</b>	163.14	191.68	245.55	302.72	323.88	292.62	238.53	192.27	173.69	205.64
<b>70.0</b>	140.78	168.98	221.23	277.71	299.19	267.27	214.18	169.78	151.00	182.32
<b>72.5</b>	119.23	146.29	196.26	251.35	271.24	241.20	189.51	147.47	129.21	158.85
<b>75.0</b>	99.03	123.71	170.84	217.92	234.49	211.14	165.07	125.22	108.48	135.33
<b>77.5</b>	79.85	101.45	142.63	180.12	195.05	175.21	139.86	103.26	88.61	112.17
<b>80.0</b>	61.21	81.12	111.86	141.47	153.40	138.86	112.47	81.90	69.37	91.01
<b>82.5</b>	43.44	58.71	80.97	98.47	106.19	100.37	84.17	61.19	50.82	67.13
<b>85.0</b>	27.14	36.64	47.52	52.59	56.30	57.76	53.49	41.35	33.21	42.95
<b>87.5</b>	12.35	14.65	14.33	12.62	13.31	17.76	22.48	21.29	16.25	18.80
<b>90.0</b>	1.37	1.09	1.06	1.42	1.71	2.11	2.82	4.17	2.37	1.82
<b>92.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>95.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>97.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>100.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>102.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>105.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>107.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>110.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>112.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>115.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>117.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>120.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>122.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>125.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>127.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>130.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>132.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**CANDELA TABULATION - (Cont.)**

135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	662.61	662.61	662.61	662.61	662.61	662.61	662.61
2.5	663.51	661.80	661.83	661.90	660.96	660.77	661.58
5.0	662.16	660.57	660.42	660.30	658.63	657.50	658.32
7.5	659.47	658.33	658.07	657.65	654.50	652.31	652.77
10.0	654.93	654.59	654.42	653.33	648.29	644.75	645.18
12.5	648.76	649.70	649.58	647.59	640.45	635.12	635.37
15.0	641.20	643.78	643.90	640.57	631.14	623.69	623.66
17.5	632.21	636.96	637.35	632.63	620.34	610.51	610.42
20.0	622.05	629.16	629.94	623.67	608.14	595.82	595.61
22.5	610.77	620.27	621.50	613.67	594.71	579.48	579.42
25.0	598.12	610.20	612.00	602.36	579.99	561.63	560.47
27.5	583.96	599.05	601.55	589.70	563.89	542.39	539.15
30.0	568.67	586.90	590.23	576.08	546.51	521.86	517.27
32.5	552.55	574.18	578.26	561.81	528.15	500.36	495.27
35.0	535.69	560.95	565.71	546.99	509.37	478.42	473.30
37.5	517.87	546.75	552.39	531.67	490.12	456.07	451.15
40.0	499.31	531.61	538.35	515.37	470.06	433.02	428.17
42.5	480.30	515.63	523.55	498.16	448.90	409.20	403.46
45.0	460.55	498.86	507.75	480.08	427.42	384.94	377.82
47.5	440.20	481.17	490.92	461.19	405.91	360.72	352.78
50.0	419.41	462.76	473.29	441.44	384.06	336.67	328.62
52.5	397.99	443.33	454.80	421.02	361.68	312.69	304.92
55.0	375.91	423.03	435.22	399.89	338.86	288.79	280.55
57.5	353.23	401.79	414.57	377.87	315.79	264.97	255.69
60.0	330.07	379.67	392.92	355.08	292.55	241.45	231.40
62.5	306.46	356.47	370.29	331.59	269.09	218.36	208.13
65.0	282.28	332.40	346.86	306.50	245.11	195.79	185.61
67.5	257.43	307.74	322.51	281.42	220.76	173.62	163.14
70.0	232.23	282.57	297.12	255.86	196.25	151.74	140.78
72.5	206.82	255.37	266.97	229.15	173.01	130.17	119.23
75.0	180.95	219.53	225.51	196.04	147.46	108.69	99.03
77.5	152.26	180.40	185.91	158.71	121.79	87.34	79.85
80.0	119.60	139.70	141.20	121.31	93.20	66.29	61.21

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**CANDELA TABULATION - (Cont.)**

82.5	86.16	94.90	92.32	81.00	65.71	47.92	43.44
85.0	50.86	47.99	42.91	38.86	36.21	27.96	27.14
87.5	16.30	8.22	4.67	5.23	8.50	9.76	12.35
90.0	1.38	1.24	1.12	0.98	0.99	1.07	1.37
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	241.83	N.A.	12.10
0-30	512.71	N.A.	25.70
0-40	839.63	N.A.	42.10
0-60	1504.37	N.A.	75.40
0-80	1943.49	N.A.	97.40
0-90	1994.57	N.A.	100.00
10-90	1931.88	N.A.	96.80
20-40	597.81	N.A.	30.00
20-50	941.35	N.A.	47.20
40-70	929.03	N.A.	46.60
60-80	439.11	N.A.	22.00
70-80	174.82	N.A.	8.80
80-90	51.08	N.A.	2.60
90-110	0.23	N.A.	0.00
90-120	0.23	N.A.	0.00
90-130	0.23	N.A.	0.00
90-150	0.23	N.A.	0.00
90-180	0.23	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1994.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.69
10-20	179.14
20-30	270.88
30-40	326.93
40-50	343.55
50-60	321.19
60-70	264.29
70-80	174.82
80-90	51.08
90-100	0.23
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

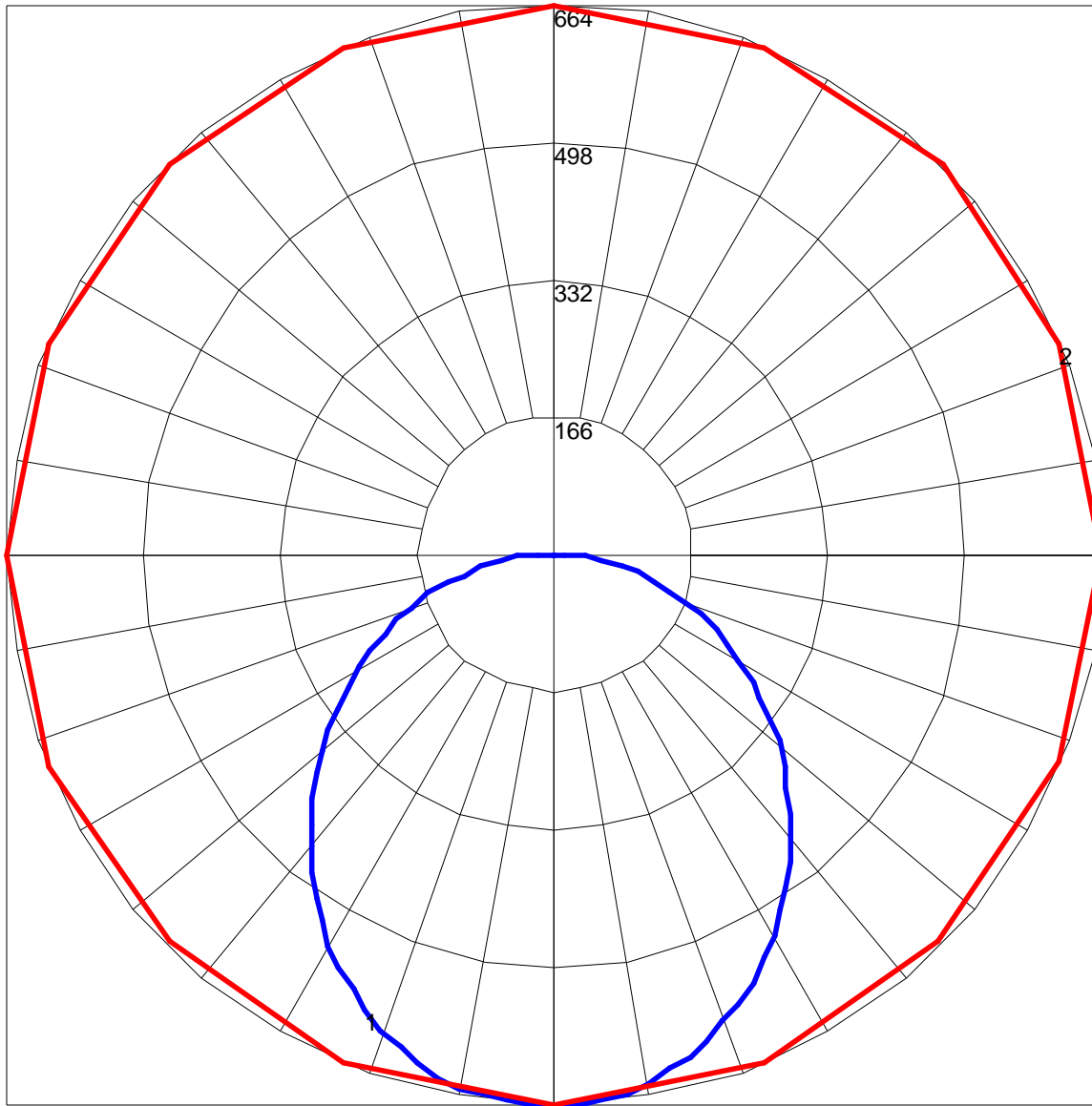
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 664.14 Located At Horizontal Angle = 202.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (202.5 - 22.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)