



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDIS22-LED31DMVFR30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] RDIS22-LED31DMVFR30
 [TESTLAB] INTERTEK
 [ISSUE DATE] 06/24/2015
 [MANUFAC] MOBERN LIGHTING CO.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	32.29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
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	2486	2863	3296
55	2285	2834	3487
65	2082	2836	3757
75	1879	2887	3873
85	1794	2373	2356

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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>
0.0	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15
2.5	1033.74	1034.53	1034.90	1033.89	1034.71	1033.46	1034.16	1034.29	1033.55	1034.29
5.0	1029.51	1028.40	1032.19	1031.81	1030.80	1030.72	1030.81	1029.84	1028.87	1029.84
7.5	1022.89	1022.30	1024.45	1025.09	1026.51	1026.91	1025.30	1022.59	1019.91	1022.59
10.0	1009.92	1010.28	1016.10	1020.53	1019.71	1019.38	1015.83	1012.73	1009.21	1012.73
12.5	995.91	997.01	1005.52	1010.41	1010.59	1009.61	1005.18	997.58	990.97	997.58
15.0	978.63	981.50	991.51	1000.93	1001.82	998.75	990.53	980.68	975.14	980.68
17.5	957.40	961.29	975.53	986.39	990.99	986.96	975.31	964.24	953.89	964.24
20.0	936.62	940.44	957.61	975.87	979.93	973.51	958.29	941.42	931.08	941.42
22.5	910.50	914.78	937.00	960.28	968.01	958.17	937.73	918.17	906.84	918.17
25.0	881.89	887.20	915.45	942.82	950.99	942.81	916.79	890.76	876.96	890.76
27.5	851.83	858.70	893.85	924.17	937.62	924.21	894.03	861.91	846.08	861.91
30.0	819.28	828.61	867.90	904.31	921.01	905.35	868.24	833.27	814.60	833.27
32.5	786.84	796.31	840.62	884.19	902.46	883.36	841.59	801.00	779.52	801.00
35.0	751.42	762.30	813.08	864.06	883.02	862.24	813.87	767.86	743.28	767.86
37.5	715.22	729.35	784.19	842.32	863.72	840.85	786.40	732.41	707.65	732.41
40.0	678.40	694.23	754.06	817.65	842.97	818.37	756.18	697.67	670.09	697.67
42.5	638.14	658.62	723.69	792.03	820.56	792.29	725.31	661.55	633.73	661.55
45.0	600.47	620.83	691.64	765.96	796.07	764.81	694.40	625.58	592.68	625.58
47.5	564.34	584.82	657.64	737.90	772.39	737.88	661.80	589.04	555.56	589.04
50.0	525.66	546.74	623.99	708.27	742.93	709.16	628.13	551.79	516.81	551.79
52.5	488.64	510.20	591.11	677.36	713.36	678.57	594.67	514.80	477.75	514.80
55.0	447.82	472.05	555.39	645.19	683.18	644.68	560.77	478.40	439.52	478.40
57.5	407.70	435.83	521.95	610.78	648.92	611.78	525.01	441.81	402.79	441.81
60.0	372.03	399.35	484.10	574.75	615.48	575.76	490.95	405.41	365.03	405.41
62.5	335.50	363.86	447.10	538.81	579.62	538.90	454.79	368.50	327.21	368.50
65.0	300.57	327.99	409.39	499.80	542.40	500.61	417.25	333.30	291.48	333.30
67.5	264.30	293.70	372.18	460.43	502.76	460.91	378.96	297.98	256.93	297.98
70.0	231.96	258.47	333.08	420.15	462.85	419.84	337.07	262.91	221.15	262.91
72.5	194.71	223.82	294.23	378.72	413.17	378.41	298.15	230.91	188.44	230.91
75.0	166.09	194.23	255.27	321.35	342.39	319.99	258.32	195.12	155.94	195.12
77.5	135.93	160.03	214.00	258.19	277.02	255.76	215.16	160.43	124.54	160.43
80.0	105.77	126.28	167.68	197.57	210.45	196.08	163.09	124.53	96.49	124.53
82.5	77.41	91.81	119.24	132.23	137.22	130.30	114.16	90.11	68.01	90.11
85.0	53.42	57.61	70.66	72.08	70.14	67.80	64.45	53.78	40.61	53.78
87.5	26.70	25.27	26.98	19.13	13.79	14.18	18.26	21.23	17.13	21.23
90.0	6.75	4.87	3.67	2.95	1.81	2.02	1.14	2.21	2.49	2.21
92.5	0.00	0.00	0.00	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	0.00	0.00	0.00
97.5	0.00	0.00	0.00	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	0.00	0.00	0.00
102.5	0.00	0.00	0.00	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	0.00	0.00	0.00
107.5	0.00	0.00	0.00	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	0.00	0.00	0.00
112.5	0.00	0.00	0.00	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	0.00	0.00	0.00
117.5	0.00	0.00	0.00	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	0.00	0.00	0.00
122.5	0.00	0.00	0.00	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	0.00	0.00	0.00
127.5	0.00	0.00	0.00	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	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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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. 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	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15	1035.15
2.5	1034.16	1033.46	1034.71	1033.89	1034.90	1034.53	1033.74
5.0	1030.81	1030.72	1030.80	1031.81	1032.19	1028.40	1029.51
7.5	1025.30	1026.91	1026.51	1025.09	1024.45	1022.30	1022.89
10.0	1015.83	1019.38	1019.71	1020.53	1016.10	1010.28	1009.92
12.5	1005.18	1009.61	1010.59	1010.41	1005.52	997.01	995.91
15.0	990.53	998.75	1001.82	1000.93	991.51	981.50	978.63
17.5	975.31	986.96	990.99	986.39	975.53	961.29	957.40
20.0	958.29	973.51	979.93	975.87	957.61	940.44	936.62
22.5	937.73	958.17	968.01	960.28	937.00	914.78	910.50
25.0	916.79	942.81	950.99	942.82	915.45	887.20	881.89
27.5	894.03	924.21	937.62	924.17	893.85	858.70	851.83
30.0	868.24	905.35	921.01	904.31	867.90	828.61	819.28
32.5	841.59	883.36	902.46	884.19	840.62	796.31	786.84
35.0	813.87	862.24	883.02	864.06	813.08	762.30	751.42
37.5	786.40	840.85	863.72	842.32	784.19	729.35	715.22
40.0	756.18	818.37	842.97	817.65	754.06	694.23	678.40
42.5	725.31	792.29	820.56	792.03	723.69	658.62	638.14
45.0	694.40	764.81	796.07	765.96	691.64	620.83	600.47
47.5	661.80	737.88	772.39	737.90	657.64	584.82	564.34
50.0	628.13	709.16	742.93	708.27	623.99	546.74	525.66
52.5	594.67	678.57	713.36	677.36	591.11	510.20	488.64
55.0	560.77	644.68	683.18	645.19	555.39	472.05	447.82
57.5	525.01	611.78	648.92	610.78	521.95	435.83	407.70
60.0	490.95	575.76	615.48	574.75	484.10	399.35	372.03
62.5	454.79	538.90	579.62	538.81	447.10	363.86	335.50
65.0	417.25	500.61	542.40	499.80	409.39	327.99	300.57
67.5	378.96	460.91	502.76	460.43	372.18	293.70	264.30
70.0	337.07	419.84	462.85	420.15	333.08	258.47	231.96
72.5	298.15	378.41	413.17	378.72	294.23	223.82	194.71
75.0	258.32	319.99	342.39	321.35	255.27	194.23	166.09
77.5	215.16	255.76	277.02	258.19	214.00	160.03	135.93
80.0	163.09	196.08	210.45	197.57	167.68	126.28	105.77

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82.5	114.16	130.30	137.22	132.23	119.24	91.81	77.41
85.0	64.45	67.80	70.14	72.08	70.66	57.61	53.42
87.5	18.26	14.18	13.79	19.13	26.98	25.27	26.70
90.0	1.14	2.02	1.81	2.95	3.67	4.87	6.75
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	377.34	N.A.	12.20
0-30	799.59	N.A.	25.80
0-40	1309.38	N.A.	42.20
0-60	2346.81	N.A.	75.70
0-80	3026.39	N.A.	97.60
0-90	3101.42	N.A.	100.00
10-90	3003.53	N.A.	96.80
20-40	932.04	N.A.	30.00
20-50	1468.23	N.A.	47.30
40-70	1448.89	N.A.	46.70
60-80	679.58	N.A.	21.90
70-80	268.12	N.A.	8.60
80-90	75.03	N.A.	2.40
90-110	0.40	N.A.	0.00
90-120	0.40	N.A.	0.00
90-130	0.40	N.A.	0.00
90-150	0.40	N.A.	0.00
90-180	0.40	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3101.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.89
10-20	279.45
20-30	422.25
30-40	509.79
40-50	536.19
50-60	501.24
60-70	411.46
70-80	268.12
80-90	75.03
90-100	0.40
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

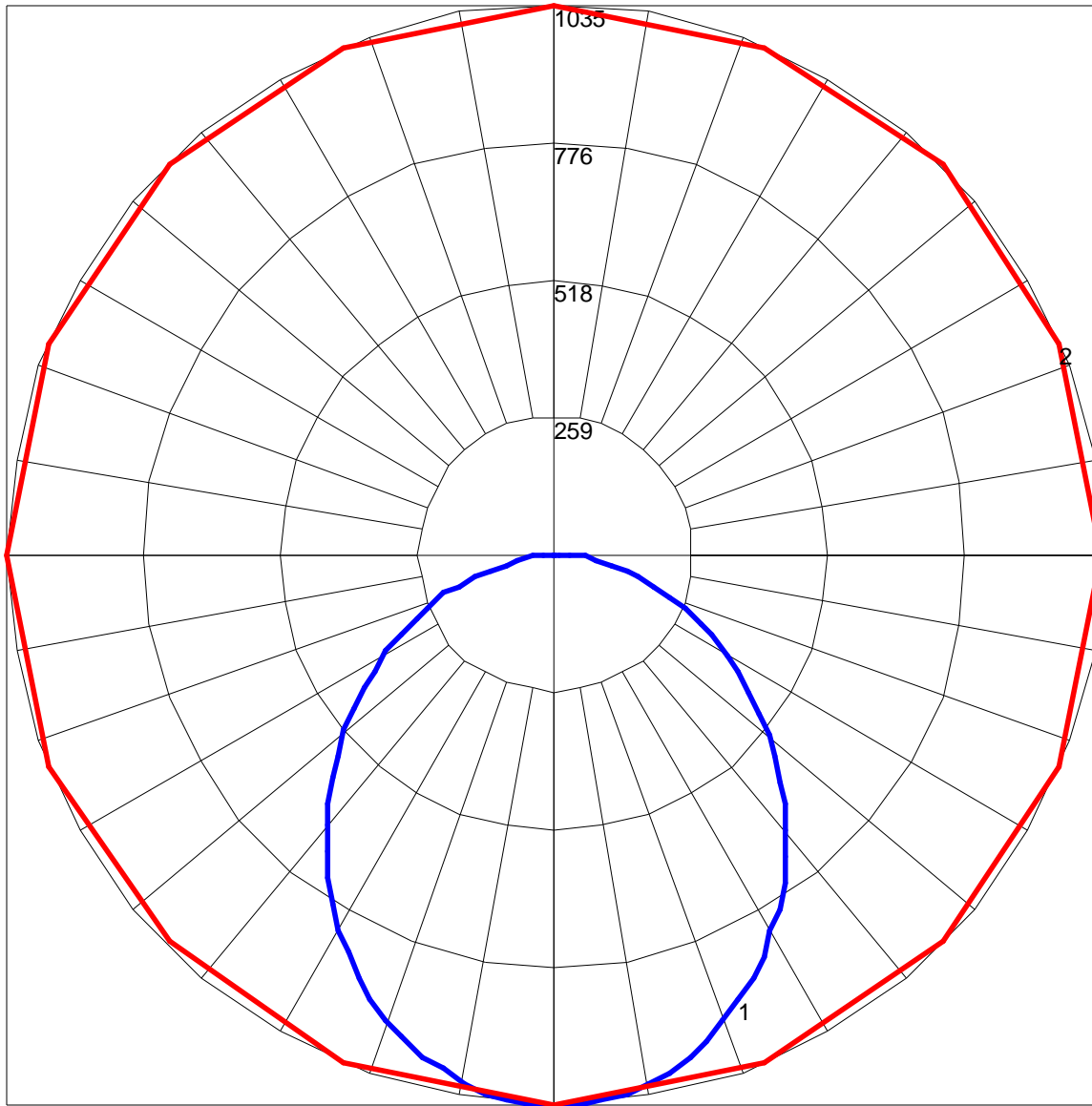
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	75	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	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	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 = 1035.15 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)