



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RAVB22-LED45DMV35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]RAVB22-LED45DMV35
 [TESTLAB]Radiant Vision Systems ProSource
 [ISSUE DATE]8/8/2018 11:10:20 AM
 [TEST DATE]08-Aug-2018 10:39:43
 [MANUFAC]Mobern Lighting Co.
 [LAMP]LED Module
 [_NUMBER OF FRAYS]10000000
 [OTHER]Absolute Photometry measurement

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4707
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	45.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.61 m
Luminous Width (90-270)	0.61 m
Luminous Height	0.10 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3583	3334	3591
55	3229	2947	3235
65	2787	2439	2791
75	2123	1762	2124
85	1102	828	1108

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	1681.549	1681.549	1681.549	1681.549	1681.549	1681.549	1681.549	1681.549	1681.549	1681.549
3	1676.898	1676.437	1674.732	1672.782	1669.645	1665.814	1662.895	1660.394	1658.542	1658.316
6	1663.316	1663.911	1662.505	1656.920	1649.651	1642.166	1635.389	1628.833	1624.969	1623.472
9	1644.529	1646.305	1644.766	1637.558	1629.265	1622.206	1615.875	1611.204	1608.065	1606.410
12	1620.413	1623.712	1621.427	1613.925	1607.157	1600.722	1598.730	1598.437	1598.870	1598.432
15	1590.548	1595.034	1593.871	1581.360	1568.980	1566.792	1569.338	1574.878	1580.185	1583.680
18	1556.956	1564.338	1556.242	1542.080	1527.499	1530.796	1536.941	1542.890	1552.539	1557.018
21	1521.733	1523.948	1515.963	1501.990	1494.763	1501.640	1509.574	1514.478	1518.276	1518.129
24	1484.815	1480.393	1471.757	1459.580	1461.922	1469.152	1474.346	1482.813	1481.694	1474.179
27	1445.156	1438.157	1424.378	1421.410	1426.264	1425.725	1429.680	1437.322	1439.388	1431.881
30	1400.179	1392.926	1374.646	1375.108	1377.739	1372.675	1380.036	1385.344	1391.678	1388.557
33	1348.303	1341.499	1317.952	1320.347	1322.288	1323.058	1331.717	1328.807	1338.981	1340.418
36	1293.224	1281.411	1254.191	1265.032	1260.849	1271.943	1278.970	1273.851	1280.729	1288.973
39	1237.672	1217.107	1197.067	1205.046	1203.287	1217.313	1214.614	1219.619	1218.721	1235.465
42	1175.304	1149.173	1133.876	1147.564	1155.500	1154.197	1154.211	1159.566	1152.571	1174.904
45	1100.965	1079.740	1066.257	1083.276	1094.386	1075.936	1086.798	1096.382	1088.740	1103.378
48	1022.900	1010.560	1007.165	1013.886	1018.136	998.551	1012.543	1027.373	1023.440	1027.510
51	949.803	945.259	940.831	938.644	940.399	934.214	942.489	951.941	957.552	954.177
54	878.637	873.702	872.877	855.846	863.262	869.031	868.139	878.948	883.238	881.019
57	804.627	793.992	787.636	787.061	792.153	794.146	793.862	803.210	803.549	804.688
60	727.660	709.218	702.435	710.094	710.099	715.361	712.312	725.077	718.167	726.972
63	648.834	627.963	627.891	629.236	621.762	636.764	635.067	644.941	640.673	649.748
66	569.075	547.393	540.225	550.698	545.178	560.143	555.007	563.151	565.677	569.835
69	489.244	465.179	464.348	460.190	466.127	478.362	471.835	484.881	487.067	485.260
72	410.070	382.330	389.309	383.346	395.446	399.849	397.382	409.363	409.987	403.879
75	332.117	302.930	305.175	309.993	315.566	323.514	324.520	329.879	332.036	332.322
78	255.201	227.503	228.914	238.837	239.627	247.302	255.171	252.673	257.041	262.449
81	189.589	164.950	175.834	182.320	186.632	192.792	194.826	197.431	194.841	195.718
84	122.365	106.847	107.841	117.950	117.047	123.556	127.200	126.913	132.436	124.634
87	67.471	49.741	47.359	53.703	57.440	57.902	60.388	57.625	68.572	64.617
90	25.871	10.895	11.047	15.126	14.424	12.183	13.740	10.959	15.412	15.592
93	1.717	3.522	1.551	1.649	0.419	0.157	0.306	0.220	0.221	0.276
96	0.108	1.838	0.436	0.131	0.081	0.141	0.121	0.058	0.013	0.046
99	0.044	0.655	0.191	0.251	0.086	0.166	0.457	0.338	0.009	0.001
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	492.77	N.A.	10.50
0-30	1274.96	N.A.	27.10
0-40	1999.63	N.A.	42.50
0-60	3676.71	N.A.	78.10
0-80	4543.15	N.A.	96.50
0-90	4704.07	N.A.	99.90
10-90	4576.65	N.A.	97.20
20-40	1506.87	N.A.	32.00
20-50	2264.03	N.A.	48.10
40-70	2205.16	N.A.	46.80
60-80	866.44	N.A.	18.40
70-80	338.36	N.A.	7.20
80-90	160.91	N.A.	3.40
90-110	2.79	N.A.	0.10
90-120	2.79	N.A.	0.10
90-130	2.79	N.A.	0.10
90-150	2.79	N.A.	0.10
90-180	2.79	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4706.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.42
10-20	365.35
20-30	782.20
30-40	724.67
40-50	757.16
50-60	919.91
60-70	528.08
70-80	338.36
80-90	160.91
90-100	2.75
100-110	0.04
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

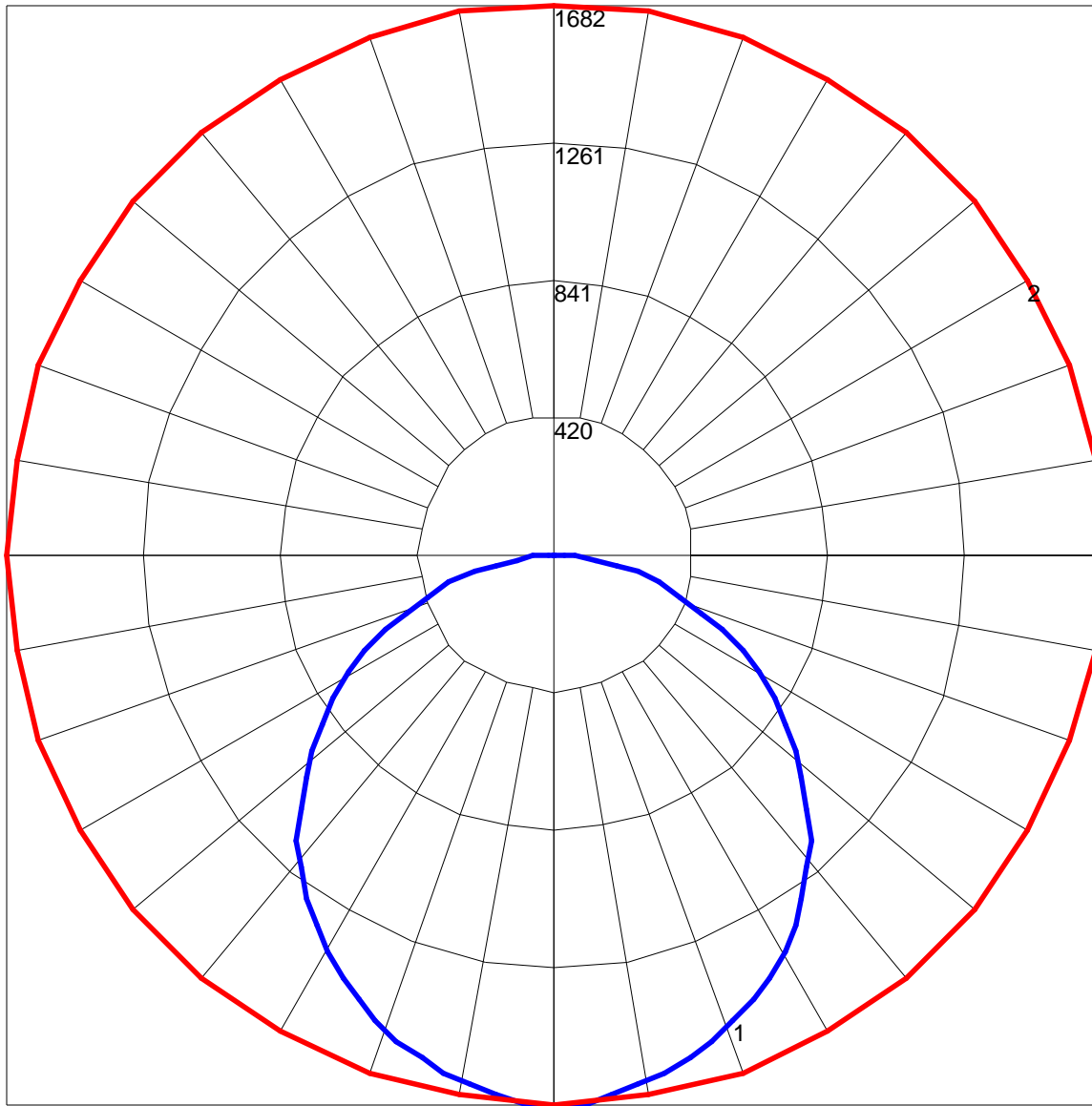
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	75	84	78	73	80	76	72	77	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	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	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	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 1681.549 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.)