



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RAVB22-LED28DMV35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]RAVB22-LED28DMV35
 [TESTLAB]Radiant Vision Systems ProSource
 [ISSUE DATE]8/8/2018 7:38:35 AM
 [TEST DATE]08-Aug-2018 06:39:34
 [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	2722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	28.1
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	2078	1931	2068
55	1888	1711	1864
65	1627	1404	1584
75	1201	1007	1202
85	673	437	623

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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	977.704	977.704	977.704	977.704	977.704	977.704	977.704	977.704	977.704	977.704
3	973.890	974.129	973.699	973.550	972.343	971.012	970.019	969.089	968.351	968.255
6	965.026	965.456	965.396	963.403	960.494	957.435	954.947	952.295	950.731	950.116
9	954.443	953.882	952.248	948.403	945.533	942.991	940.443	938.912	938.447	938.500
12	940.357	937.957	934.560	932.424	932.779	930.902	928.581	927.780	928.910	929.863
15	921.322	917.906	916.817	916.922	919.087	918.904	916.284	916.658	917.624	917.358
18	902.108	900.751	897.599	899.219	901.233	901.244	899.240	902.626	903.981	900.287
21	886.481	884.431	877.969	876.155	879.121	877.189	876.302	883.650	884.381	879.736
24	868.085	865.728	853.961	845.671	853.576	853.755	850.742	859.060	860.142	857.502
27	840.681	840.979	827.506	819.551	827.999	830.029	827.425	831.704	833.864	834.683
30	808.873	811.023	801.418	795.359	797.593	799.508	801.418	805.351	805.960	808.903
33	778.181	776.847	771.266	769.968	767.401	769.216	771.450	774.414	774.182	778.037
36	746.892	740.006	732.999	739.419	733.457	738.446	737.849	739.883	740.102	744.176
39	712.356	706.456	696.758	698.764	696.802	706.009	700.901	705.467	707.094	709.735
42	675.700	672.391	658.044	661.942	664.413	670.357	668.460	668.794	672.036	673.916
45	638.347	632.298	616.998	625.603	628.229	628.480	631.518	631.465	634.626	635.488
48	599.268	588.691	578.354	587.444	587.653	584.110	589.107	591.162	594.859	594.666
51	557.343	547.286	536.427	545.047	546.434	543.530	548.723	547.634	554.471	552.048
54	513.930	503.981	500.017	495.677	503.355	503.389	505.935	507.811	508.685	508.117
57	470.423	458.414	455.244	453.961	460.970	458.593	461.138	465.624	463.194	463.219
60	426.050	410.393	406.054	409.707	411.766	411.020	411.229	417.923	417.113	417.150
63	379.749	362.135	362.284	363.854	360.726	364.437	366.635	369.366	372.980	369.900
66	331.622	312.563	310.135	318.944	317.303	318.788	323.145	321.868	327.491	322.937
69	282.330	263.701	263.667	266.954	270.940	270.114	276.024	276.246	280.086	277.531
72	233.791	216.409	220.935	220.516	228.405	225.600	229.390	232.246	234.425	232.896
75	187.866	171.630	176.096	176.030	182.231	182.918	182.786	186.380	188.580	188.111
78	145.057	129.090	132.888	136.026	138.270	138.607	142.144	141.364	144.618	144.102
81	110.646	94.399	100.952	105.047	105.966	106.372	109.180	109.201	107.087	107.739
84	75.405	61.027	58.918	67.019	62.148	65.577	70.331	69.389	70.079	70.750
87	39.753	27.557	25.374	28.042	28.959	30.476	31.746	28.645	34.155	35.133
90	13.490	6.066	5.259	5.710	4.441	5.352	5.213	4.238	5.954	7.394
93	0.886	3.723	1.624	2.544	0.731	0.095	0.102	0.303	0.090	0.063
96	0.056	2.470	1.125	0.858	0.206	0.146	0.076	0.035	0.006	0.011
99	0.023	1.848	0.752	0.507	0.092	0.141	0.241	0.171	0.003	0.000
102	0.000	1.947	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	1.808	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	1.514	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.617	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.691	0.134	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.921	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.833	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.495	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.142	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	286.42	N.A.	10.50
0-30	741.16	N.A.	27.20
0-40	1161.7	N.A.	42.70
0-60	2132.95	N.A.	78.40
0-80	2630.32	N.A.	96.60
0-90	2719.54	N.A.	99.90
10-90	2645.37	N.A.	97.20
20-40	875.28	N.A.	32.20
20-50	1313.99	N.A.	48.30
40-70	1275.66	N.A.	46.90
60-80	497.37	N.A.	18.30
70-80	192.96	N.A.	7.10
80-90	89.22	N.A.	3.30
90-110	1.79	N.A.	0.10
90-120	1.92	N.A.	0.10
90-130	1.97	N.A.	0.10
90-150	1.99	N.A.	0.10
90-180	1.99	N.A.	0.10
110-180	0.20	N.A.	0.00
0-180	2721.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.17
10-20	212.25
20-30	454.74
30-40	420.54
40-50	438.71
50-60	532.55
60-70	304.41
70-80	192.96
80-90	89.22
90-100	1.56
100-110	0.23
110-120	0.13
120-130	0.04
130-140	0.02
140-150	0.01
150-160	0.00
160-170	0.00
170-180	0.00

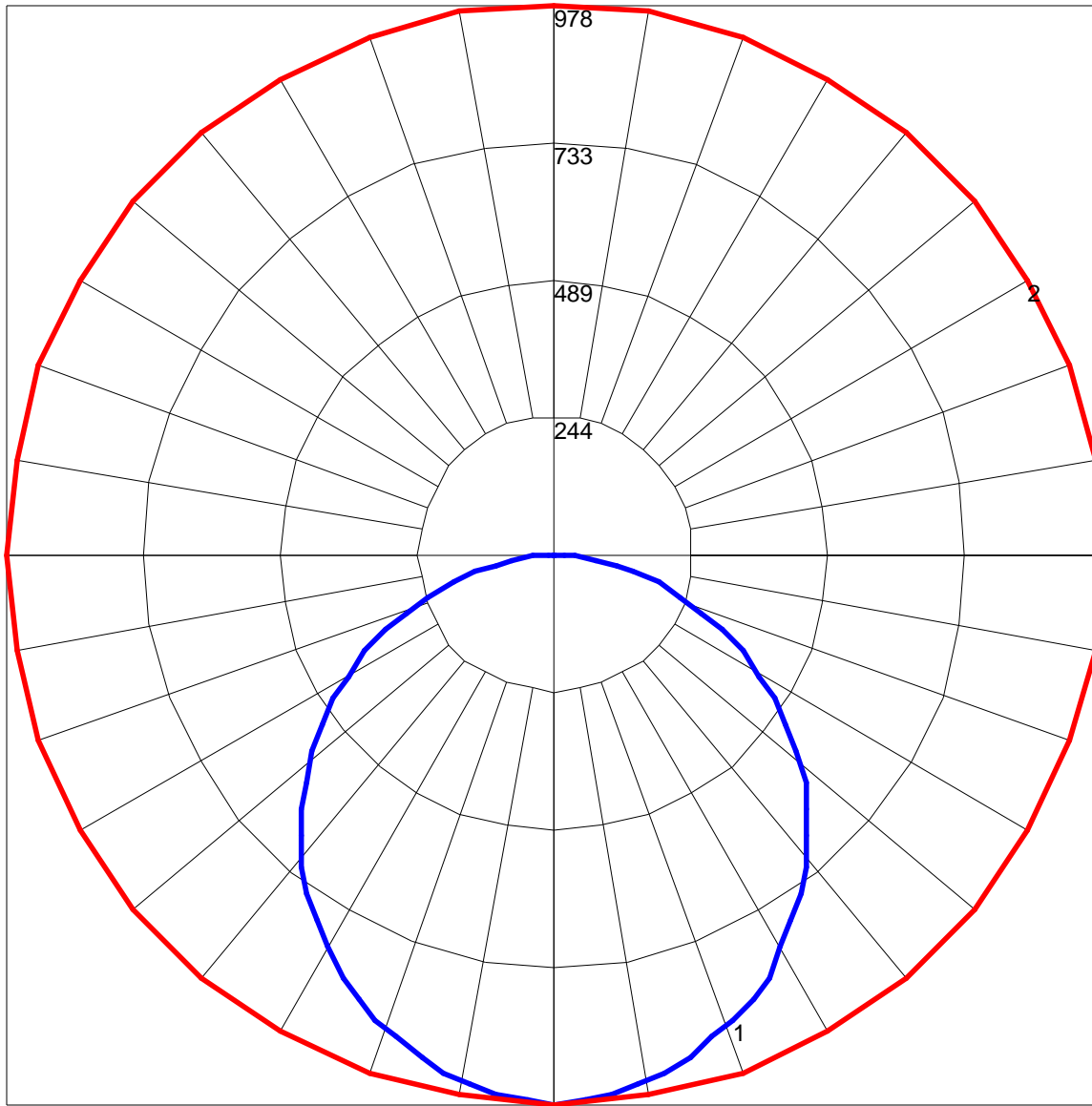
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	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	50	38	30	25	37	30	25	36	29	25	35	29	24	23

POLAR GRAPH



Maximum Candela = 977.704 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.)