

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 105127679LAX-001  
[TESTLAB] Intertek  
[ISSUE DATE] 06/23/2022  
[MANUFAC] Prudential Lighting  
[LUMCAT] GazeRD-48-LED35-MO-D1  
[OTHER] Input Electricals:

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	79
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	3.83 ft (Diameter)
Luminous Width (90-270)	3.83 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2763	2766	2767
55	2656	2662	2665
65	2491	2498	2497
75	2128	2132	2124
85	1461	1461	1433

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES**

**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>	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000
<b>2.5</b>	3165.195	3164.040	3164.040	3164.700	3164.205	3164.700	3164.040	3164.040	3165.195	3164.040
<b>5.0</b>	3154.305	3153.150	3152.820	3153.315	3153.645	3153.315	3152.820	3153.150	3154.305	3153.150
<b>7.5</b>	3135.990	3134.670	3134.835	3135.165	3135.165	3135.165	3134.835	3134.670	3135.990	3134.670
<b>10.0</b>	3110.085	3109.095	3108.765	3109.755	3109.260	3109.755	3108.765	3109.095	3110.085	3109.095
<b>12.5</b>	3077.250	3076.590	3076.425	3077.415	3076.920	3077.415	3076.425	3076.590	3077.250	3076.590
<b>15.0</b>	3037.155	3036.660	3036.825	3037.815	3037.650	3037.815	3036.825	3036.660	3037.155	3036.660
<b>17.5</b>	2991.450	2990.130	2991.615	2991.450	2992.110	2991.450	2991.615	2990.130	2991.450	2990.130
<b>20.0</b>	2938.485	2936.670	2938.650	2938.650	2939.805	2938.650	2938.650	2936.670	2938.485	2936.670
<b>22.5</b>	2879.250	2878.095	2879.085	2879.250	2880.240	2879.250	2879.085	2878.095	2879.250	2878.095
<b>25.0</b>	2813.580	2813.250	2813.910	2814.900	2815.890	2814.900	2813.910	2813.250	2813.580	2813.250
<b>27.5</b>	2741.805	2742.300	2742.300	2742.960	2744.115	2742.960	2742.300	2742.300	2741.805	2742.300
<b>30.0</b>	2663.925	2664.090	2665.575	2665.905	2666.895	2665.905	2665.575	2664.090	2663.925	2664.090
<b>32.5</b>	2581.755	2581.425	2584.065	2583.240	2584.725	2583.240	2584.065	2581.425	2581.755	2581.425
<b>35.0</b>	2495.295	2493.810	2496.945	2496.120	2497.440	2496.120	2496.945	2493.810	2495.295	2493.810
<b>37.5</b>	2403.555	2401.740	2405.205	2404.875	2406.690	2404.875	2405.205	2401.740	2403.555	2401.740
<b>40.0</b>	2305.380	2304.885	2307.195	2307.360	2308.845	2307.360	2307.195	2304.885	2305.380	2304.885
<b>42.5</b>	2202.420	2203.410	2205.060	2206.215	2206.050	2206.215	2205.060	2203.410	2202.420	2203.410
<b>45.0</b>	2096.655	2097.315	2098.800	2100.120	2099.625	2100.120	2098.800	2097.315	2096.655	2097.315
<b>47.5</b>	1987.590	1986.930	1989.570	1989.900	1989.900	1989.900	1989.570	1986.930	1987.590	1986.930
<b>50.0</b>	1874.565	1873.245	1877.535	1877.040	1879.680	1877.040	1877.535	1873.245	1874.565	1873.245
<b>52.5</b>	1757.250	1756.425	1760.055	1758.735	1761.870	1758.735	1760.055	1756.425	1757.250	1756.425
<b>55.0</b>	1634.655	1635.480	1638.450	1638.945	1639.935	1638.945	1638.450	1635.480	1634.655	1635.480
<b>57.5</b>	1509.750	1511.400	1512.060	1513.710	1512.390	1513.710	1512.060	1511.400	1509.750	1511.400
<b>60.0</b>	1381.215	1383.360	1383.855	1386.330	1384.020	1386.330	1383.855	1383.360	1381.215	1383.360
<b>62.5</b>	1251.855	1254.000	1254.660	1256.475	1255.485	1256.475	1254.660	1254.000	1251.855	1254.000
<b>65.0</b>	1129.425	1130.415	1132.560	1131.240	1132.230	1131.240	1132.560	1130.415	1129.425	1130.415
<b>67.5</b>	995.280	997.095	998.910	997.425	998.250	997.425	998.910	997.095	995.280	997.095
<b>70.0</b>	859.815	861.960	862.290	860.970	860.970	860.970	862.290	861.960	859.815	861.960
<b>72.5</b>	724.350	726.825	725.835	726.000	723.525	726.000	725.835	726.825	724.350	726.825
<b>75.0</b>	591.030	593.340	592.185	592.350	589.875	592.350	592.185	593.340	591.030	593.340
<b>77.5</b>	463.320	464.640	464.310	463.485	461.340	463.485	464.310	464.640	463.320	464.640
<b>80.0</b>	342.705	344.355	344.520	342.540	340.560	342.540	344.520	344.355	342.705	344.355
<b>82.5</b>	232.320	234.795	233.805	231.330	230.010	231.330	233.805	234.795	232.320	234.795
<b>85.0</b>	136.620	138.765	136.620	135.960	133.980	135.960	136.620	138.765	136.620	138.765
<b>87.5</b>	57.255	58.245	56.265	56.595	55.605	56.595	56.265	58.245	57.255	58.245
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES**

**CANDELA TABULATION - (Cont.)**

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000	3168.000
2.5	3164.040	3164.700	3164.205	3164.700	3164.040	3164.040	3165.195
5.0	3152.820	3153.315	3153.645	3153.315	3152.820	3153.150	3154.305
7.5	3134.835	3135.165	3135.165	3135.165	3134.835	3134.670	3135.990
10.0	3108.765	3109.755	3109.260	3109.755	3108.765	3109.095	3110.085
12.5	3076.425	3077.415	3076.920	3077.415	3076.425	3076.590	3077.250
15.0	3036.825	3037.815	3037.650	3037.815	3036.825	3036.660	3037.155
17.5	2991.615	2991.450	2992.110	2991.450	2991.615	2990.130	2991.450
20.0	2938.650	2938.650	2939.805	2938.650	2938.650	2936.670	2938.485
22.5	2879.085	2879.250	2880.240	2879.250	2879.085	2878.095	2879.250
25.0	2813.910	2814.900	2815.890	2814.900	2813.910	2813.250	2813.580
27.5	2742.300	2742.960	2744.115	2742.960	2742.300	2742.300	2741.805
30.0	2665.575	2665.905	2666.895	2665.905	2665.575	2664.090	2663.925
32.5	2584.065	2583.240	2584.725	2583.240	2584.065	2581.425	2581.755
35.0	2496.945	2496.120	2497.440	2496.120	2496.945	2493.810	2495.295
37.5	2405.205	2404.875	2406.690	2404.875	2405.205	2401.740	2403.555
40.0	2307.195	2307.360	2308.845	2307.360	2307.195	2304.885	2305.380
42.5	2205.060	2206.215	2206.050	2206.215	2205.060	2203.410	2202.420
45.0	2098.800	2100.120	2099.625	2100.120	2098.800	2097.315	2096.655
47.5	1989.570	1989.900	1989.900	1989.900	1989.570	1986.930	1987.590
50.0	1877.535	1877.040	1879.680	1877.040	1877.535	1873.245	1874.565
52.5	1760.055	1758.735	1761.870	1758.735	1760.055	1756.425	1757.250
55.0	1638.450	1638.945	1639.935	1638.945	1638.450	1635.480	1634.655
57.5	1512.060	1513.710	1512.390	1513.710	1512.060	1511.400	1509.750
60.0	1383.855	1386.330	1384.020	1386.330	1383.855	1383.360	1381.215
62.5	1254.660	1256.475	1255.485	1256.475	1254.660	1254.000	1251.855
65.0	1132.560	1131.240	1132.230	1131.240	1132.560	1130.415	1129.425
67.5	998.910	997.425	998.250	997.425	998.910	997.095	995.280
70.0	862.290	860.970	860.970	860.970	862.290	861.960	859.815
72.5	725.835	726.000	723.525	726.000	725.835	726.825	724.350
75.0	592.185	592.350	589.875	592.350	592.185	593.340	591.030
77.5	464.310	463.485	461.340	463.485	464.310	464.640	463.320
80.0	344.520	342.540	340.560	342.540	344.520	344.355	342.705

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES**

**CANDELA TABULATION - (Cont.)**

82.5	233.805	231.330	230.010	231.330	233.805	234.795	232.320
85.0	136.620	135.960	133.980	135.960	136.620	138.765	136.620
87.5	56.265	56.595	55.605	56.595	56.265	58.245	57.255
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1156.69	N.A.	12.80
0-30	2453.37	N.A.	27.30
0-40	4014.61	N.A.	44.60
0-60	7095.5	N.A.	78.80
0-80	8838.9	N.A.	98.20
0-90	9001.54	N.A.	100.00
10-90	8701.93	N.A.	96.70
20-40	2857.92	N.A.	31.70
20-50	4476.52	N.A.	49.70
40-70	4195.85	N.A.	46.60
60-80	1743.4	N.A.	19.40
70-80	628.44	N.A.	7.00
80-90	162.64	N.A.	1.80
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	9001.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	299.61
10-20	857.08
20-30	1296.68
30-40	1561.24
40-50	1618.6
50-60	1462.29
60-70	1114.96
70-80	628.44
80-90	162.64
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 : GAZERD-48-LED35-MO-D1.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES**

**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	14.7	16.3	15.0	16.6	17.0	UGR Viewed Endwise			
	3H	16.5	18.0	16.9	18.3	18.7	14.7	16.3	15.1	16.7
	4H	17.2	18.6	17.5	18.9	19.3	16.5	18.0	16.9	18.3
	6H	17.6	18.9	18.0	19.3	19.7	17.2	18.6	17.6	18.9
	8H	17.7	19.0	18.2	19.4	19.8	17.6	18.9	18.0	19.3
	12H	17.8	19.0	18.3	19.4	19.8	17.7	19.0	18.2	19.4

4H	2H	15.3	16.7	15.7	17.1	17.5	17.8	19.0	18.3	19.4
	3H	17.4	18.5	17.8	18.9	19.3	14.7	16.3	15.1	16.7
	4H	18.2	19.2	18.6	19.6	20.1	16.5	18.0	16.9	18.3
	6H	18.7	19.7	19.2	20.1	20.5	17.2	18.6	17.6	18.9
	8H	18.9	19.8	19.4	20.2	20.7	17.6	18.9	18.0	19.3
	12H	19.0	19.8	19.5	20.3	20.7	17.7	19.0	18.2	19.4

8H	4H	18.4	19.3	18.9	19.8	20.2	17.8	19.0	18.3	19.4
	6H	19.1	19.9	19.6	20.3	20.8	14.7	16.3	15.1	16.7
	8H	19.4	20.0	19.9	20.5	21.0	16.5	18.0	16.9	18.3
	12H	19.6	20.1	20.1	20.6	21.2	17.2	18.6	17.6	18.9

12H	4H	18.5	19.3	18.9	19.7	20.2	17.6	18.9	18.0	19.3
	6H	19.2	19.8	19.7	20.3	20.8	17.7	19.0	18.2	19.4
	8H	19.5	20.1	20.0	20.5	21.1	17.8	19.0	18.3	19.4

Maximum UGR = 21.2

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GAZERD-48-LED35-MO-D1.IES

POLAR GRAPH