

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GAZERD-48-LED35-SO-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-SO-D1
[OTHER] Input Electricals:

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	127
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	4103	4107	4109
55	3944	3953	3957
65	3698	3708	3707
75	3160	3166	3154
85	2169	2169	2127

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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	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000
2.5	4699.835	4698.120	4698.120	4699.100	4698.365	4699.100	4698.120	4698.120	4699.835	4698.120
5.0	4683.665	4681.950	4681.460	4682.195	4682.685	4682.195	4681.460	4681.950	4683.665	4681.950
7.5	4656.470	4654.510	4654.755	4655.245	4655.245	4655.245	4654.755	4654.510	4656.470	4654.510
10.0	4618.005	4616.535	4616.045	4617.515	4616.780	4617.515	4616.045	4616.535	4618.005	4616.535
12.5	4569.250	4568.270	4568.025	4569.495	4568.760	4569.495	4568.025	4568.270	4569.250	4568.270
15.0	4509.715	4508.980	4509.225	4510.695	4510.450	4510.695	4509.225	4508.980	4509.715	4508.980
17.5	4441.850	4439.890	4442.095	4441.850	4442.830	4441.850	4442.095	4439.890	4441.850	4439.890
20.0	4363.205	4360.510	4363.450	4363.450	4365.165	4363.450	4363.450	4360.510	4363.205	4360.510
22.5	4275.250	4273.535	4275.005	4275.250	4276.720	4275.250	4275.005	4273.535	4275.250	4273.535
25.0	4177.740	4177.250	4178.230	4179.700	4181.170	4179.700	4178.230	4177.250	4177.740	4177.250
27.5	4071.165	4071.900	4071.900	4072.880	4074.595	4072.880	4071.900	4071.900	4071.165	4071.900
30.0	3955.525	3955.770	3957.975	3958.465	3959.935	3958.465	3957.975	3955.770	3955.525	3955.770
32.5	3833.515	3833.025	3836.945	3835.720	3837.925	3835.720	3836.945	3833.025	3833.515	3833.025
35.0	3705.135	3702.930	3707.585	3706.360	3708.320	3706.360	3707.585	3702.930	3705.135	3702.930
37.5	3568.915	3566.220	3571.365	3570.875	3573.570	3570.875	3571.365	3566.220	3568.915	3566.220
40.0	3423.140	3422.405	3425.835	3426.080	3428.285	3426.080	3425.835	3422.405	3423.140	3422.405
42.5	3270.260	3271.730	3274.180	3275.895	3275.650	3275.895	3274.180	3271.730	3270.260	3271.730
45.0	3113.215	3114.195	3116.400	3118.360	3117.625	3118.360	3116.400	3114.195	3113.215	3114.195
47.5	2951.270	2950.290	2954.210	2954.700	2954.700	2954.700	2954.210	2950.290	2951.270	2950.290
50.0	2783.445	2781.485	2787.855	2787.120	2791.040	2787.120	2787.855	2781.485	2783.445	2781.485
52.5	2609.250	2608.025	2613.415	2611.455	2616.110	2611.455	2613.415	2608.025	2609.250	2608.025
55.0	2427.215	2428.440	2432.850	2433.585	2435.055	2433.585	2432.850	2428.440	2427.215	2428.440
57.5	2241.750	2244.200	2245.180	2247.630	2245.670	2247.630	2245.180	2244.200	2241.750	2244.200
60.0	2050.895	2054.080	2054.815	2058.490	2055.060	2058.490	2054.815	2054.080	2050.895	2054.080
62.5	1858.815	1862.000	1862.980	1865.675	1864.205	1865.675	1862.980	1862.000	1858.815	1862.000
65.0	1677.025	1678.495	1681.680	1679.720	1681.190	1679.720	1681.680	1678.495	1677.025	1678.495
67.5	1477.840	1480.535	1483.230	1481.025	1482.250	1481.025	1483.230	1480.535	1477.840	1480.535
70.0	1276.695	1279.880	1280.370	1278.410	1278.410	1278.410	1280.370	1279.880	1276.695	1279.880
72.5	1075.550	1079.225	1077.755	1078.000	1074.325	1078.000	1077.755	1079.225	1075.550	1079.225
75.0	877.590	881.020	879.305	879.550	875.875	879.550	879.305	881.020	877.590	881.020
77.5	687.960	689.920	689.430	688.205	685.020	688.205	689.430	689.920	687.960	689.920
80.0	508.865	511.315	511.560	508.620	505.680	508.620	511.560	511.315	508.865	511.315
82.5	344.960	348.635	347.165	343.490	341.530	343.490	347.165	348.635	344.960	348.635
85.0	202.860	206.045	202.860	201.880	198.940	201.880	202.860	206.045	202.860	206.045
87.5	85.015	86.485	83.545	84.035	82.565	84.035	83.545	86.485	85.015	86.485
90.0	0.000	0.000	0.000	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	0.000	0.000	0.000
95.0	0.000	0.000	0.000	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	0.000	0.000	0.000
100.0	0.000	0.000	0.000	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	0.000	0.000	0.000
105.0	0.000	0.000	0.000	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	0.000	0.000	0.000
110.0	0.000	0.000	0.000	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	0.000	0.000	0.000
115.0	0.000	0.000	0.000	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	0.000	0.000	0.000
120.0	0.000	0.000	0.000	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	0.000	0.000	0.000
125.0	0.000	0.000	0.000	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	0.000	0.000	0.000
130.0	0.000	0.000	0.000	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	0.000	0.000	0.000

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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	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000	4704.000
2.5	4698.120	4699.100	4698.365	4699.100	4698.120	4698.120	4699.835
5.0	4681.460	4682.195	4682.685	4682.195	4681.460	4681.950	4683.665
7.5	4654.755	4655.245	4655.245	4655.245	4654.755	4654.510	4656.470
10.0	4616.045	4617.515	4616.780	4617.515	4616.045	4616.535	4618.005
12.5	4568.025	4569.495	4568.760	4569.495	4568.025	4568.270	4569.250
15.0	4509.225	4510.695	4510.450	4510.695	4509.225	4508.980	4509.715
17.5	4442.095	4441.850	4442.830	4441.850	4442.095	4439.890	4441.850
20.0	4363.450	4363.450	4365.165	4363.450	4363.450	4360.510	4363.205
22.5	4275.005	4275.250	4276.720	4275.250	4275.005	4273.535	4275.250
25.0	4178.230	4179.700	4181.170	4179.700	4178.230	4177.250	4177.740
27.5	4071.900	4072.880	4074.595	4072.880	4071.900	4071.900	4071.165
30.0	3957.975	3958.465	3959.935	3958.465	3957.975	3955.770	3955.525
32.5	3836.945	3835.720	3837.925	3835.720	3836.945	3833.025	3833.515
35.0	3707.585	3706.360	3708.320	3706.360	3707.585	3702.930	3705.135
37.5	3571.365	3570.875	3573.570	3570.875	3571.365	3566.220	3568.915
40.0	3425.835	3426.080	3428.285	3426.080	3425.835	3422.405	3423.140
42.5	3274.180	3275.895	3275.650	3275.895	3274.180	3271.730	3270.260
45.0	3116.400	3118.360	3117.625	3118.360	3116.400	3114.195	3113.215
47.5	2954.210	2954.700	2954.700	2954.700	2954.210	2950.290	2951.270
50.0	2787.855	2787.120	2791.040	2787.120	2787.855	2781.485	2783.445
52.5	2613.415	2611.455	2616.110	2611.455	2613.415	2608.025	2609.250
55.0	2432.850	2433.585	2435.055	2433.585	2432.850	2428.440	2427.215
57.5	2245.180	2247.630	2245.670	2247.630	2245.180	2244.200	2241.750
60.0	2054.815	2058.490	2055.060	2058.490	2054.815	2054.080	2050.895
62.5	1862.980	1865.675	1864.205	1865.675	1862.980	1862.000	1858.815
65.0	1681.680	1679.720	1681.190	1679.720	1681.680	1678.495	1677.025
67.5	1483.230	1481.025	1482.250	1481.025	1483.230	1480.535	1477.840
70.0	1280.370	1278.410	1278.410	1278.410	1280.370	1279.880	1276.695
72.5	1077.755	1078.000	1074.325	1078.000	1077.755	1079.225	1075.550
75.0	879.305	879.550	875.875	879.550	879.305	881.020	877.590
77.5	689.430	688.205	685.020	688.205	689.430	689.920	687.960
80.0	511.560	508.620	505.680	508.620	511.560	511.315	508.865

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82.5	347.165	343.490	341.530	343.490	347.165	348.635	344.960
85.0	202.860	201.880	198.940	201.880	202.860	206.045	202.860
87.5	83.545	84.035	82.565	84.035	83.545	86.485	85.015
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1717.51	N.A.	12.80
0-30	3642.88	N.A.	27.30
0-40	5961.09	N.A.	44.60
0-60	10535.74	N.A.	78.80
0-80	13124.42	N.A.	98.20
0-90	13365.92	N.A.	100.00
10-90	12921.04	N.A.	96.70
20-40	4243.58	N.A.	31.70
20-50	6646.96	N.A.	49.70
40-70	6230.2	N.A.	46.60
60-80	2588.68	N.A.	19.40
70-80	933.13	N.A.	7.00
80-90	241.50	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	13365.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	444.87
10-20	1272.63
20-30	1925.38
30-40	2318.21
40-50	2403.37
50-60	2171.27
60-70	1655.55
70-80	933.13
80-90	241.50
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

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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	56	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

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PHOTOMETRIC FILENAME : GAZERD-48-LED35-SO-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					UGR Viewed Endwise				
X=2H	Y=2H	16.1	17.7	16.4	18.0	18.4	16.1	17.7	16.5	18.1	18.4
	3H	17.9	19.4	18.3	19.7	20.1	17.9	19.4	18.3	19.7	20.1
	4H	18.6	20.0	18.9	20.3	20.7	18.6	20.0	19.0	20.3	20.7
	6H	19.0	20.3	19.4	20.7	21.1	19.0	20.3	19.4	20.7	21.1
	8H	19.1	20.4	19.6	20.8	21.2	19.1	20.4	19.6	20.8	21.2
	12H	19.2	20.4	19.7	20.8	21.2	19.2	20.4	19.7	20.8	21.2
4H	2H	16.7	18.1	17.1	18.5	18.9	16.7	18.1	17.1	18.5	18.9
	3H	18.8	19.9	19.2	20.3	20.7	18.8	19.9	19.2	20.3	20.7
	4H	19.6	20.6	20.0	21.0	21.5	19.6	20.6	20.0	21.0	21.5
	6H	20.1	21.1	20.6	21.5	21.9	20.1	21.0	20.6	21.5	21.9
	8H	20.3	21.2	20.8	21.6	22.1	20.3	21.2	20.7	21.6	22.1
	12H	20.4	21.2	20.9	21.7	22.1	20.4	21.2	20.9	21.7	22.1
8H	4H	19.8	20.7	20.3	21.2	21.6	19.8	20.7	20.3	21.2	21.6
	6H	20.5	21.3	21.0	21.7	22.2	20.5	21.3	21.0	21.7	22.2
	8H	20.8	21.4	21.3	21.9	22.4	20.8	21.4	21.3	21.9	22.4
	12H	21.0	21.5	21.5	22.0	22.6	20.9	21.5	21.4	22.0	22.6
12H	4H	19.9	20.7	20.3	21.1	21.6	19.9	20.7	20.3	21.1	21.6
	6H	20.6	21.2	21.1	21.7	22.2	20.6	21.2	21.1	21.7	22.2
	8H	20.9	21.5	21.4	21.9	22.5	20.9	21.4	21.4	21.9	22.5

Maximum UGR = 22.6

IES INDOOR REPORT
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POLAR GRAPH