

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** SP06-1200W-277V

Lamp Output: 1 lamp, rated Lumens/lamp: 92063.9

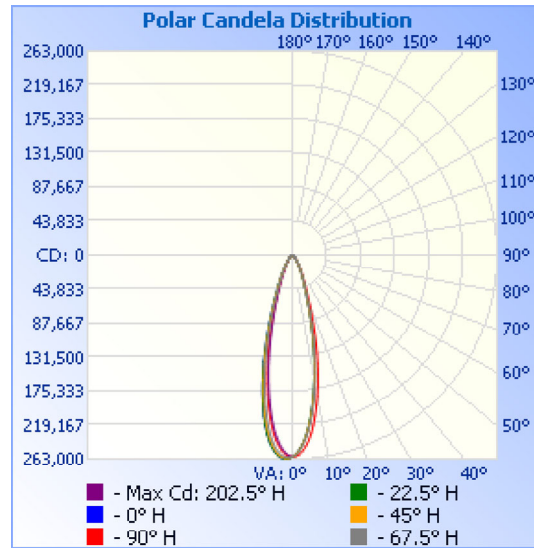
Max Candela: 262,659.5 at Horizontal: 202.5°, Vertical: 2°

Input Wattage: 1273

Luminous Opening: Point

Photometry : Type C

Nema Type: 4 X 4



### Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	208.6	
Max Cd, 80 to <90 Deg:	1,306.6	
	Lumens	% Lamp
Downward Street Side:	41,214.2	44.8%
Downward House Side:	49,738.5	54%
Downward Total:	90,952.6	98.8%
Upward Street Side:	622.8	0.7%
Upward House Side:	488.4	0.5%
Upward Total:	1,111.2	1.2%
Total Lumens:	92,063.8	100%

### Flood Summary

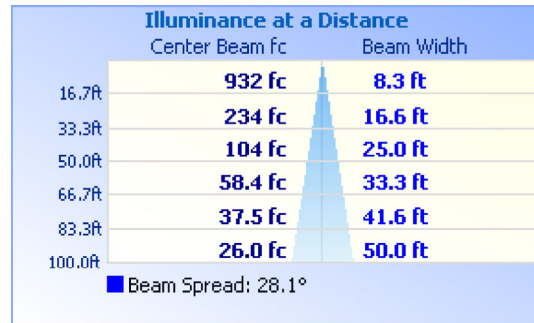
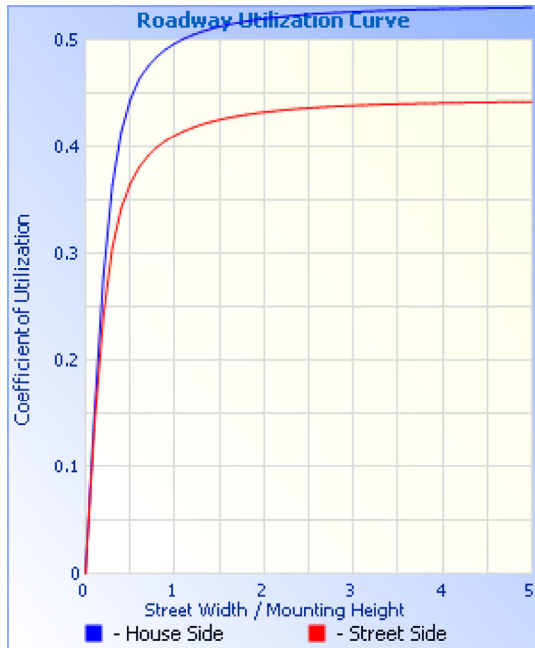
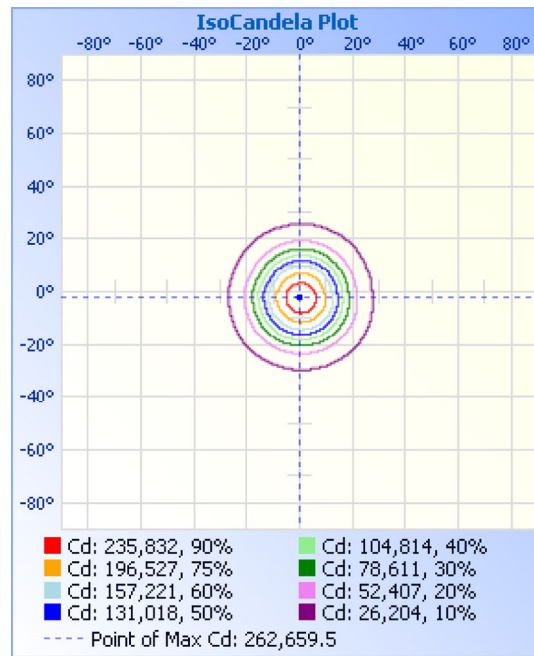
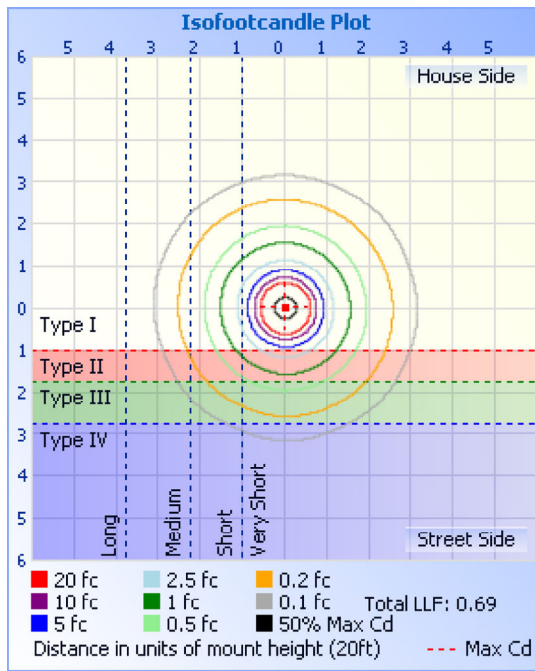
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	71.7%	65,986.8	54.5	55.3
Beam (50%):	38.2%	35,126.2	28.1	28.1
Total:	99.9%	91,943.1		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	69,162.6	75.1%	75.2%
0-40	77,212.2	83.9%	83.9%
0-60	85,656.3	93%	93.1%
60-90	5,237.4	5.7%	5.7%
70-100	2,559.8	2.8%	2.8%
90-120	249.8	0.3%	0.3%
0-90	90,893.7	98.7%	98.8%
90-180	1,110.8	1.2%	1.2%
0-180	92,004.5	99.9%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	21,106.9	22.9%	90-100	99.5	0.1%
10-20	31,806.0	34.6%	100-110	71.4	0.1%
20-30	16,249.8	17.7%	110-120	79.0	0.1%
30-40	8,049.6	8.7%	120-130	100.0	0.1%
40-50	4,859.8	5.3%	130-140	149.4	0.2%
50-60	3,584.3	3.9%	140-150	209.4	0.2%
60-70	2,777.1	3.0%	150-160	214.6	0.2%
70-80	1,848.2	2.0%	160-170	142.4	0.2%
80-90	612.1	0.7%	170-180	45.1	0%



**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.01	1.01	1.01	1.01	.99	.99	.99	.99
1	1.13	1.10	1.07	1.05	1.10	1.08	1.05	.92	1.03	1.01	1.00	1.00	.99	.98	.97	.97	.96	.95	.94	.94	.92	.92	.92	.92
2	1.07	1.02	.98	.95	1.05	1.00	.97	.86	.97	.94	.91	.91	.94	.91	.89	.89	.91	.89	.87	.87	.85	.85	.85	.85
3	1.02	.96	.91	.87	1.00	.94	.90	.81	.91	.88	.85	.85	.89	.86	.83	.83	.86	.84	.82	.82	.80	.80	.80	.80
4	.98	.90	.85	.81	.96	.89	.84	.77	.87	.82	.79	.79	.85	.81	.78	.78	.83	.80	.77	.77	.75	.75	.75	.75
5	.93	.85	.80	.76	.92	.84	.79	.73	.82	.78	.74	.74	.81	.77	.74	.74	.79	.76	.73	.73	.72	.72	.72	.72
6	.89	.81	.75	.71	.88	.80	.75	.69	.79	.74	.71	.71	.77	.73	.70	.70	.76	.72	.69	.69	.68	.68	.68	.68
7	.86	.77	.72	.68	.85	.77	.71	.66	.75	.71	.67	.67	.74	.70	.67	.67	.73	.69	.66	.66	.65	.65	.65	.65

8	.83	.74	.68	.65	.81	.73	.68	.63	.72	.68	.64	.71	.67	.64	.70	.66	.64	.62
9	.80	.71	.66	.62	.79	.70	.65	.61	.69	.65	.62	.68	.64	.61	.68	.64	.61	.60
10	.77	.68	.63	.59	.76	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.58

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991	259991
1	256291	256310	256529	257086	259079	260279	260907	261539	262103	262218	261732	260995	259067	258236	257154	256660	256291
2	251289	251053	251677	252533	256942	258688	260271	261696	262535	262660	261855	260561	256803	254891	253020	251817	251289
3	244498	244385	244925	246240	252657	255730	258207	260292	261537	261641	260472	258442	252698	250067	246941	245426	244498
4	236282	235901	236994	238578	247021	250865	254346	257214	259054	259138	257448	254664	246929	243230	239584	237295	236282
5	226321	226282	227008	229038	239785	244915	249136	252805	255056	255212	252899	249430	239745	234885	230513	227561	226321
6	215519	214768	216108	218762	231175	236693	242082	246517	249275	249446	246468	242108	231233	225372	220288	216881	215519
7	202929	202511	204072	206937	220965	227320	233380	238674	241924	242121	238599	233399	220347	214374	208898	204937	202929
8	190149	189666	191006	194450	209577	216722	223381	229681	233094	233355	229149	223334	209196	201997	196045	191974	190149
9	176579	175863	177421	180637	197306	204750	212164	218947	222992	222908	218342	211924	196792	189098	182834	178819	176579
10	162260	161564	163226	166718	184463	192038	199982	207207	211004	210854	206523	198996	183152	175061	168898	164694	162260
11	148830	147730	149425	153221	171222	178318	186213	194022	198304	198125	193148	185988	169016	161375	155289	151153	148830
12	135010	133928	135705	139501	157963	164679	172639	180355	184794	184414	179971	172386	155838	147601	141377	137450	135010
13	121050	120199	121787	125898	143699	150741	158668	166266	170761	170225	164997	158226	141678	133458	127387	123349	121050
14	108459	107562	109128	112382	130007	137032	144541	152189	156187	155681	150888	144208	127535	120142	114272	110627	108459
15	95753	95698	96475	100136	116777	123734	130968	138341	142154	141442	136995	129726	114508	107478	101883	97893	95753
16	84440	83815	84705	88126	103963	110371	117228	123969	127750	127296	122645	116402	101872	94608	89523	86473	84440
17	74083	73503	74361	77379	91692	97654	104232	110796	114259	113874	109338	103401	89081	83058	78477	75336	74083
18	64961	64578	65325	67839	80211	85764	91866	98008	101382	100961	96691	91111	78144	72389	68830	66090	64961
19	56758	56437	57344	59459	70412	74907	80547	86226	89230	88950	84940	79862	68304	63346	60027	58102	56758
20	49991	49652	50339	52056	61160	65147	70126	75149	77947	77601	74157	69592	59561	55411	52622	50989	49991
21	44356	44230	44507	45955	53445	57125	61383	65824	68497	68160	65053	61001	52412	48839	46519	44995	44356
22	39573	39494	39680	40870	46995	50136	53799	57825	60044	59860	57165	53673	46227	43258	41267	40110	39573
23	35666	35316	35804	36447	41520	44167	47334	50651	52876	52664	50389	47144	40851	38475	36883	35912	35666
24	31936	31777	32107	32972	36953	39132	41981	45074	46851	46708	44686	41904	36514	34372	33130	32280	31936
25	28802	28807	28928	29664	33211	34818	37383	40008	41648	41463	39921	37506	32633	30910	29758	29033	28802
26	26033	25998	26188	26772	29711	31297	33546	35713	37236	36991	35823	33542	29301	27782	26801	26286	26033
27	23587	23562	23744	24250	26778	28169	30055	32087	33372	33114	31965	30277	26269	25024	24238	23757	23587
28	21427	21391	21473	22058	24127	25358	27051	28798	29903	29863	28694	27224	23642	22500	21871	21564	21427
29	19297	19287	19473	19939	21794	22888	24399	25919	26885	26716	25855	24480	21315	20305	19694	19402	19297
30	17641	17790	17831	18087	19709	20622	21924	23335	24153	24066	23201	22089	19138	18263	17665	17589	17641
31	15883	16029	16103	16458	17728	18656	19783	21064	21761	21679	20911	19939	17197	16579	16125	15914	15883
32	14447	14668	14689	14978	16071	16978	17755	18902	19522	19465	18782	18100	15563	15024	14614	14462	14447
33	13193	13398	13474	13720	14541	15235	16083	17034	17678	17496	16973	16192	14015	13592	13300	13161	13193
34	12134	12336	12400	12611	13201	13826	14561	15450	15871	15790	15288	14656	12733	12400	12187	12095	12134
35	11215	11386	11474	11658	12087	12606	13199	13926	14288	14336	13819	13324	11613	11344	11236	11149	11215
36	10369	10514	10585	10809	11105	11491	12056	12655	12998	12981	12560	12135	10672	10452	10355	10294	10369
37	9627	9729	9838	10016	10233	10616	11093	11607	11836	11919	11548	11187	9881	9666	9612	9517	9627
38	8927	9036	9196	9335	9523	9806	10207	10649	10899	10901	10616	10338	9130	8956	8874	8885	8927
39	8361	8441	8561	8721	8824	9055	9475	9836	10053	10085	9832	9564	8402	8333	8315	8294	8361
40	7795	7926	7999	8145	8189	8486	8749	9083	9280	9281	9098	8876	7877	7758	7714	7740	7795
41	7327	7453	7493	7656	7663	7893	8161	8469	8672	8650	8468	8288	7345	7265	7233	7270	7327
42	6937	7067	7098	7173	7155	7347	7619	7915	8039	8048	7900	7737	6901	6819	6828	6849	6937
43	6548	6625	6672	6776	6745	6907	7143	7379	7509	7533	7406	7260	6491	6420	6442	6475	6548
44	6213	6306	6351	6423	6352	6497	6727	6975	7029	7098	6968	6851	6133	6092	6109	6156	6213
45	5878	5987	6005	6108	6035	6121	6364	6523	6645	6687	6579	6467	5821	5757	5787	5777	5878
46	5653	5711	5796	5816	5700	5828	6019	6186	6292	6349	6246	6138	5550	5511	5520	5536	5653
47	5410	5460	5475	5538	5446	5563	5686	5873	6000	6018	5900	5897	5313	5247	5276	5313	5410
48	5142	5239	5234	5278	5197	5282	5454	5638	5714	5754	5660	5600	5076	4994	5056	5072	5142
49	4953	4975	5018	5048	4961	5041	5210	5367	5483	5478	5401	5339	4862	4789	4842	4855	4953
50	4728	4766	4790	4825	4753	4801	4967	5120	5240	5263	5178	5116	4666	4595	4616	4626	4728

51	4552	4589	4598	4615	4556	4613	4764	4903	5026	5018	4975	4875	4487	4413	4431	4415	4552
52	4339	4380	4376	4404	4354	4396	4562	4698	4826	4834	4765	4677	4285	4202	4217	4271	4339
53	4193	4208	4228	4218	4158	4190	4372	4506	4625	4632	4549	4478	4140	4043	4074	4066	4193
54	4065	4018	4067	4082	4008	4049	4217	4301	4442	4435	4370	4311	3961	3879	3914	3891	4065
55	3876	3877	3901	3902	3858	3885	4027	4138	4284	4276	4222	4125	3834	3732	3777	3747	3876
56	3742	3724	3765	3748	3719	3727	3860	3969	4102	4128	4049	3952	3690	3603	3658	3620	3742
57	3639	3619	3635	3624	3575	3562	3717	3831	3980	3963	3907	3809	3569	3468	3515	3482	3639
58	3493	3484	3506	3494	3459	3462	3575	3692	3816	3828	3771	3679	3453	3322	3355	3403	3493
59	3438	3398	3395	3382	3326	3333	3474	3554	3700	3693	3654	3556	3344	3216	3283	3247	3438
60	3286	3276	3290	3271	3245	3204	3343	3409	3572	3558	3481	3469	3240	3122	3176	3144	3286
61	3177	3159	3209	3171	3113	3104	3254	3319	3438	3460	3407	3302	3136	3011	3057	3036	3177
62	3067	3049	3092	3054	3014	2993	3146	3198	3341	3337	3284	3190	3020	2917	2962	2939	3067
63	2988	2945	2963	2961	2939	2905	3033	3084	3219	3214	3160	3079	2922	2811	2879	2855	2988
64	2866	2883	2876	2856	2807	2805	2926	2970	3091	3110	3061	2979	2818	2711	2778	2759	2866
65	2775	2767	2814	2769	2731	2717	2813	2861	3006	3000	2956	2893	2737	2623	2671	2638	2775
66	2702	2668	2722	2670	2622	2617	2766	2771	2897	2902	2870	2756	2639	2524	2605	2572	2702
67	2580	2595	2629	2558	2564	2512	2653	2686	2793	2791	2777	2664	2541	2424	2522	2452	2580
68	2495	2454	2531	2441	2443	2418	2546	2554	2684	2681	2672	2577	2454	2371	2427	2385	2495
69	2398	2368	2432	2379	2327	2306	2433	2446	2580	2576	2580	2484	2316	2265	2338	2277	2398
70	2300	2245	2333	2255	2264	2254	2349	2391	2452	2448	2500	2360	2264	2177	2242	2168	2300
71	2197	2141	2228	2156	2166	2142	2278	2253	2379	2350	2382	2279	2160	2031	2147	2072	2197
72	2093	2012	2123	2044	2079	2025	2189	2144	2252	2257	2259	2162	2050	1943	2034	1934	2093
73	2002	1914	2000	1920	1981	1919	2082	2036	2142	2116	2173	2056	1981	1843	1939	1855	2002
74	1789	1785	1895	1827	1883	1796	1975	1934	2063	2012	2074	1945	1888	1743	1850	1735	1789
75	1667	1656	1765	1672	1744	1702	1856	1837	1935	1877	1932	1864	1744	1620	1725	1578	1667
76	1521	1534	1666	1561	1588	1567	1778	1723	1801	1779	1827	1722	1588	1502	1618	1500	1521
77	1375	1454	1531	1480	1478	1455	1642	1584	1643	1675	1722	1580	1501	1414	1499	1367	1375
78	1254	1319	1284	1357	1351	1379	1511	1470	1515	1527	1605	1499	1392	1291	1291	1259	1254
79	1114	1215	1167	1220	1213	1227	1404	1379	1381	1417	1494	1388	1236	1180	1148	1150	1114
80	974	1074	1018	1134	1091	1127	1172	1259	1248	1307	1284	1276	1103	1092	1017	1030	974
81	846	926	839	948	959	1021	1065	1150	1108	1184	1148	1183	987	980	868	885	846
82	736	791	734	855	832	886	928	1012	998	1061	1006	1034	855	827	743	795	736
83	615	669	611	706	739	781	803	891	876	920	876	880	745	692	654	651	615
84	523	552	531	576	618	651	672	789	755	797	722	768	635	593	523	554	523
85	414	429	407	452	526	534	571	657	657	681	630	632	560	475	416	428	414
86	323	362	302	372	427	417	452	542	536	540	537	496	433	364	351	325	323
87	237	270	228	266	341	340	351	404	426	423	401	421	358	270	262	235	237
88	152	202	154	186	231	246	286	319	335	337	339	304	254	182	172	163	152
89	128	147	86	136	173	164	208	241	231	282	222	248	202	147	107	126	128
90	103	129	99	124	144	117	131	187	189	209	160	149	162	100	95	108	103
91	103	117	68	93	133	65	107	114	128	147	111	105	144	100	89	108	103
92	110	123	99	124	121	76	83	108	110	141	93	99	133	82	89	108	110
93	110	117	105	93	127	41	89	84	61	123	43	87	133	76	95	102	110
94	91	104	86	74	121	70	77	102	110	110	80	105	104	70	77	108	91
95	79	104	80	105	110	59	65	84	110	117	93	105	127	76	65	90	79
96	91	98	86	93	115	59	77	90	85	92	74	87	115	65	65	84	91
97	73	98	68	81	87	41	77	90	73	104	74	87	87	59	59	78	73
98	37	104	25	81	92	47	48	66	49	110	62	99	110	59	71	72	37
99	85	98	80	99	92	47	65	66	91	104	68	74	115	47	48	78	85
100	79	104	68	99	92	29	77	66	79	67	49	74	104	41	59	84	79
101	85	104	62	68	92	59	42	72	73	74	62	62	104	41	59	72	85
102	67	80	62	74	87	41	59	78	61	86	62	62	92	35	59	66	67
103	67	67	56	43	87	23	65	66	73	86	56	62	104	53	65	72	67
104	49	86	56	68	92	23	48	48	73	80	68	62	92	59	48	54	49

105	43	49	68	74	92	29	48	60	67	86	37	62	104	53	77	72	43
106	91	110	62	68	69	23	42	60	55	80	62	62	104	53	71	72	91
107	61	55	68	93	92	59	36	66	55	43	25	62	92	47	48	96	61
108	79	117	56	81	81	65	54	72	61	92	49	56	104	65	59	72	79
109	91	92	56	87	92	41	54	48	55	86	56	81	92	53	48	90	91
110	79	104	68	68	92	47	59	66	85	61	43	56	81	53	77	90	79
111	110	104	80	62	81	41	54	72	73	49	62	56	104	53	48	84	110
112	91	110	68	99	98	29	48	78	61	74	68	62	115	65	83	90	91
113	85	104	68	81	115	53	48	66	73	80	56	68	121	59	83	84	85
114	91	104	74	105	75	47	48	84	79	67	37	62	115	59	83	78	91
115	91	104	62	99	104	47	54	84	55	86	56	68	127	76	71	78	91
116	85	110	56	87	92	47	71	90	73	104	74	74	110	76	65	108	85
117	97	98	99	99	87	41	71	66	30	110	62	81	127	70	83	96	97
118	73	123	80	118	104	18	65	90	79	98	68	93	104	65	89	108	73
119	103	117	86	93	92	59	71	78	73	74	62	81	133	65	83	114	103
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122	116	117	105	112	110	70	59	72	61	98	68	87	139	70	89	126	116
123	97	135	123	118	115	76	71	78	97	80	62	87	144	88	89	126	97
124	122	129	105	124	121	76	83	84	97	104	74	87	156	88	101	139	122
125	122	141	117	118	121	70	101	96	91	110	74	105	144	100	89	133	122
126	134	147	123	136	115	88	77	96	110	123	93	99	144	106	125	139	134
127	152	172	148	155	127	94	95	114	110	135	86	87	150	112	125	139	152
128	146	166	123	155	121	82	83	102	116	141	86	105	162	123	131	163	146
129	170	190	160	155	144	94	89	108	97	123	99	136	185	141	131	145	170
130	170	202	167	155	156	100	89	108	91	147	105	130	196	129	143	181	170
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134	207	264	191	217	167	141	131	157	158	159	136	155	219	200	208	241	207
135	250	258	210	217	162	135	149	151	140	172	142	149	248	205	220	235	250
136	250	282	247	260	208	135	131	169	170	184	154	142	254	217	238	259	250
137	256	270	241	248	214	153	167	169	183	196	167	161	289	235	250	277	256
138	310	301	296	273	225	176	149	193	170	184	179	192	271	241	256	277	310
139	292	331	290	279	225	176	167	193	207	215	167	198	306	241	286	307	292
140	335	356	327	328	243	176	190	211	207	221	191	217	318	276	280	331	335
141	353	368	327	341	260	205	196	223	225	221	204	223	341	288	327	307	353
142	359	374	327	328	266	223	208	223	225	252	216	248	381	329	333	349	359
143	377	399	376	390	283	229	226	253	237	270	241	242	370	335	345	386	377
144	359	411	383	396	318	252	232	247	243	264	247	242	387	370	369	373	359
145	420	417	389	409	312	258	262	271	262	301	247	260	427	376	381	410	420
146	438	454	395	440	323	264	268	277	292	288	247	279	450	393	404	410	438
147	450	485	457	434	341	282	280	295	286	307	284	297	450	376	422	440	450
148	469	497	451	452	346	293	268	289	316	325	309	328	462	428	440	458	469
149	469	503	469	477	375	305	309	301	335	319	296	316	491	428	458	470	469
150	481	534	488	514	381	317	297	325	335	337	321	359	497	469	458	506	481
151	505	534	525	502	404	335	339	349	341	356	327	359	526	464	488	500	505
152	517	540	518	496	398	364	327	337	347	368	327	378	537	481	506	524	517
153	548	571	518	545	410	370	387	355	377	393	370	365	537	499	512	536	548
154	529	552	543	557	416	370	375	392	383	399	395	372	572	511	547	512	529
155	529	571	549	545	427	387	381	373	389	423	383	415	566	516	517	542	529
156	554	601	525	551	433	393	393	410	402	405	401	421	572	528	535	554	554
157	560	589	525	564	450	411	410	398	420	417	395	421	549	534	535	548	560
158	554	601	580	557	462	405	399	404	426	429	389	421	589	540	571	572	554

159	548	589	543	570	474	417	422	440	420	466	414	434	577	563	541	554	548
160	566	589	555	582	479	428	410	416	456	448	426	465	601	563	547	566	566
161	554	571	549	595	485	428	440	446	450	460	401	427	612	558	547	560	554
162	542	571	555	570	497	446	440	446	462	460	444	465	618	558	559	578	542
163	560	589	543	570	474	428	416	446	426	454	438	446	595	575	547	572	560
164	542	577	562	564	502	428	434	470	456	466	432	458	589	540	553	554	542
165	554	564	537	557	474	434	428	464	444	442	414	465	595	534	517	530	554
166	560	577	512	564	491	452	452	464	456	460	432	458	601	534	559	548	560
167	542	534	518	527	491	428	434	458	462	460	420	471	601	540	535	536	542
168	529	552	512	551	491	452	458	458	450	460	432	452	577	505	523	530	529
169	529	534	512	533	474	434	440	476	426	478	438	477	572	522	500	506	529
170	511	534	494	520	497	428	440	452	475	460	438	465	572	499	488	482	511
171	523	528	481	533	468	446	446	464	456	466	438	446	554	493	482	512	523
172	505	497	463	502	508	423	446	452	462	478	426	465	554	475	482	494	505
173	517	509	475	514	485	434	434	458	450	448	438	458	543	469	488	464	517
174	481	491	463	471	497	428	440	446	456	472	451	427	531	481	464	476	481
175	469	503	457	477	491	428	446	446	456	491	438	446	531	458	464	464	469
176	450	491	463	489	497	411	434	446	456	472	426	452	502	446	476	470	450
177	469	478	426	452	462	417	452	440	456	454	426	458	520	458	458	470	469
178	462	485	426	452	497	399	404	452	469	442	414	446	497	452	452	470	462
179	450	485	451	452	502	434	446	458	456	472	432	452	485	446	428	458	450
180	456	472	426	440	502	452	452	470	456	521	426	440	479	446	446	464	456

**Luminaire Report Summary**

IESNA: LM-63-2002  
[TEST]  
[ISSUEDATE] 2022/7/25 h 20:05  
[MANUFAC]  
[LUMCAT]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[\_VOLTAGE] 280.3 V  
[\_CURRENT] 4.753 A  
[\_POWERFACTOR] 0.956  
[TESTLAB]  
[\_TESTINST] GPM-1800B  
[\_TESTDIST] 8.190 m  
[\_TESTTEMPERATURE]  
[\_TESTHUMIDITY]  
[\_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.