

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** PHB10-165W-120V-4000K\_1179

**Lamp Output:** 1 lamp, rated Lumens/lamp: 23404.7

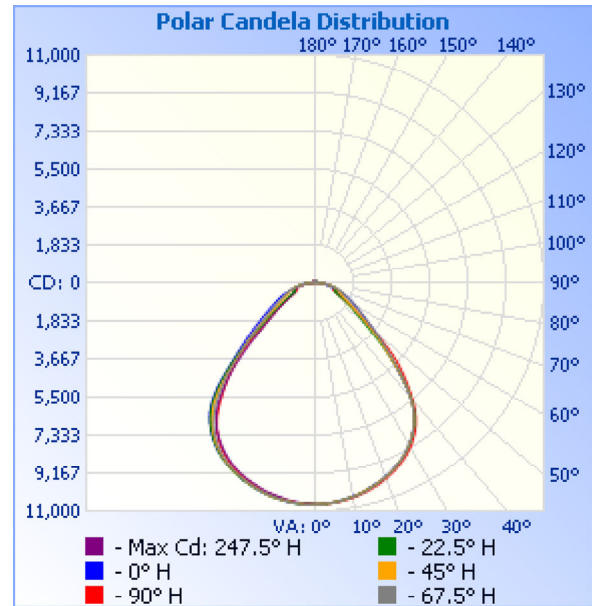
**Max Candela:** 10,694.3 at Horizontal: 247.5°, Vertical: 2°

**Input Wattage:** 165.3

**Luminous Opening:** Point

**Photometry :** Type C

**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	68.9
Max Cd, 80 to <90 Deg:	784.3
	Lumens % Lamp
Downward Street Side:	11,299.2 48.3%
Downward House Side:	11,913.2 50.9%
Downward Total:	23,212.4 99.2%
Upward Street Side:	104.9 0.4%
Upward House Side:	87.5 0.4%
Upward Total:	192.4 0.8%
<b>Total Lumens:</b>	<b>23,404.7 100%</b>

### Flood Summary

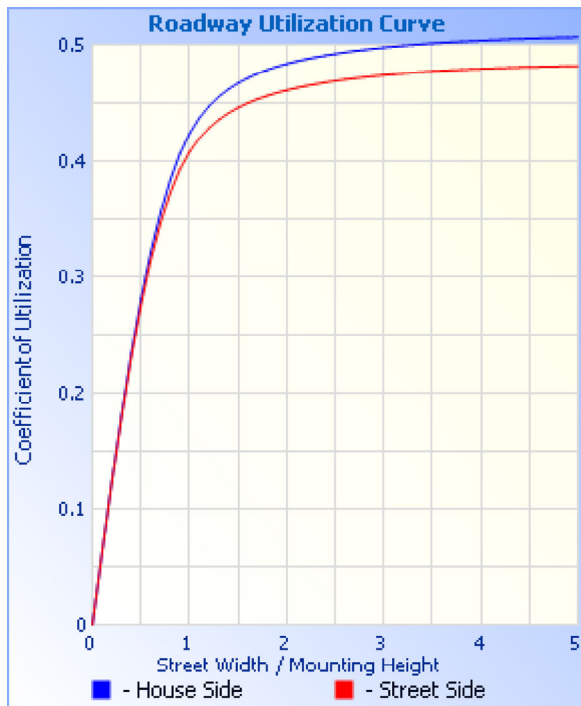
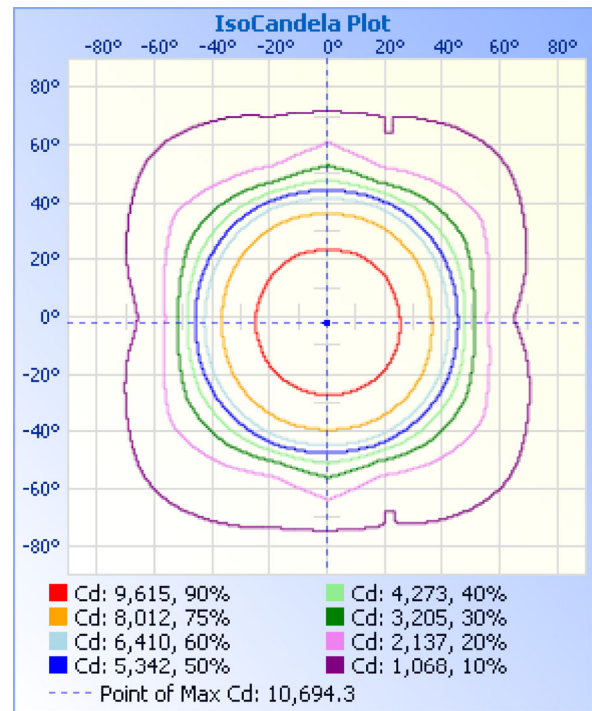
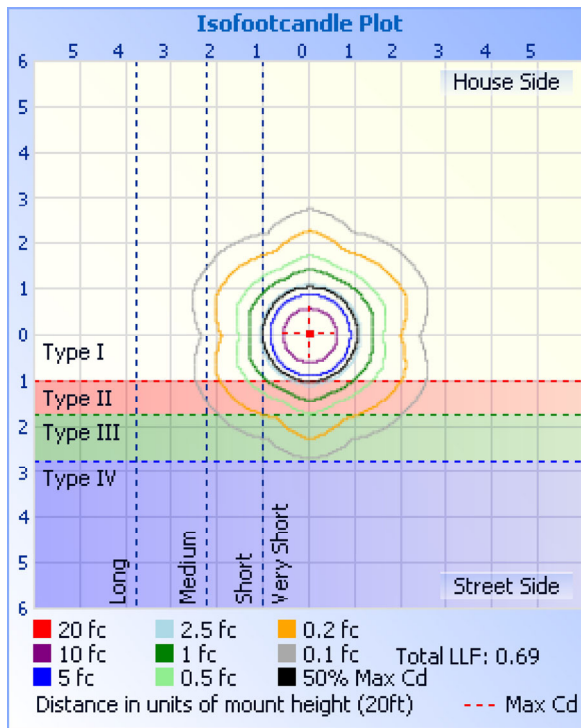
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.9%	22,201.8	132.3	146.2
Beam (50%):	69.1%	16,174.3	91.3	91.5
<b>Total:</b>	<b>100%</b>	<b>23,395.3</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	8,353.2	35.7%	35.7%
0-40	13,581.2	58%	58%
0-60	20,292.0	86.7%	86.7%
60-90	2,917.4	12.5%	12.5%
70-100	1,419.3	6.1%	6.1%
90-120	43.6	0.2%	0.2%
0-90	23,209.4	99.2%	99.2%
90-180	192.3	0.8%	0.8%
0-180	23,401.7	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,010.3	4.3%	90-100	8.9	0%
10-20	2,905.9	12.4%	100-110	13.5	0.1%
20-30	4,436.9	19.0%	110-120	21.2	0.1%
30-40	5,228.0	22.3%	120-130	28.4	0.1%
40-50	4,260.8	18.2%	130-140	32.5	0.1%
50-60	2,450.1	10.5%	140-150	32.2	0.1%
60-70	1,507.0	6.4%	150-160	28.2	0.1%
70-80	1,037.9	4.4%	160-170	20.0	0.1%
80-90	372.5	1.6%	170-180	7.3	0%



	Center Beam fc	Beam Width	
4.3R	577 fc	8.8 ft	8.8 ft
8.7R	141 fc	17.9 ft	17.8 ft
13.0R	63.1 fc	26.7 ft	26.6 ft
17.3R	35.7 fc	35.5 ft	35.4 ft
21.7R	22.7 fc	44.6 ft	44.4 ft
26.0R	15.8 fc	53.4 ft	53.2 ft

■ Vert. Spread: 91.5°  
■ Horiz. Spread: 91.3°

**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	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	1.01	1.01	1.01	.99
1	1.10	1.06	1.02	.99	1.07	1.03	1.00	.87	.99	.96	.94	.94	.95	.93	.91	.91	.91	.90	.88	.88	.86	.86	.86	.86
2	1.01	.94	.88	.83	.99	.92	.87	.75	.89	.84	.80	.80	.85	.82	.78	.78	.82	.79	.76	.76	.74	.74	.74	.74
3	.94	.84	.77	.71	.91	.83	.76	.66	.80	.74	.69	.69	.77	.72	.68	.68	.74	.70	.67	.67	.65	.65	.65	.65

4	.87	.76	.68	.62	.84	.75	.67	.58	.72	.66	.61	.70	.64	.60	.67	.63	.59	.57
5	.80	.69	.61	.55	.78	.68	.60	.52	.65	.59	.54	.63	.58	.53	.62	.56	.52	.50
6	.75	.62	.54	.48	.73	.62	.54	.47	.60	.53	.48	.58	.52	.47	.56	.51	.47	.45
7	.70	.57	.49	.43	.68	.56	.49	.42	.55	.48	.43	.53	.47	.43	.52	.46	.42	.40
8	.65	.52	.45	.39	.63	.52	.44	.38	.50	.44	.39	.49	.43	.39	.48	.42	.38	.36
9	.61	.48	.41	.36	.60	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.33
10	.57	.45	.37	.32	.56	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30

**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	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671	10671
1	10667	10669	10664	10671	10677	10676	10675	10673	10680	10674	10684	10680	10670	10662	10662	10643	10667
2	10645	10660	10657	10664	10668	10670	10675	10675	10687	10674	10682	10694	10655	10657	10644	10638	10645
3	10635	10659	10636	10652	10660	10658	10659	10673	10679	10677	10673	10681	10645	10641	10629	10624	10635
4	10622	10634	10623	10642	10650	10646	10647	10646	10665	10685	10659	10675	10638	10628	10619	10618	10622
5	10617	10620	10605	10618	10633	10634	10632	10634	10646	10663	10644	10659	10641	10603	10604	10601	10617
6	10585	10588	10583	10597	10615	10614	10614	10616	10637	10652	10624	10640	10612	10589	10582	10584	10585
7	10561	10557	10567	10568	10597	10592	10593	10608	10628	10619	10604	10622	10590	10558	10562	10560	10561
8	10520	10527	10540	10543	10566	10568	10576	10586	10606	10595	10590	10592	10558	10534	10535	10521	10520
9	10479	10494	10494	10516	10543	10536	10556	10577	10573	10574	10573	10561	10524	10502	10496	10474	10479
10	10440	10460	10466	10480	10511	10505	10527	10544	10545	10554	10552	10531	10491	10464	10466	10439	10440
11	10416	10434	10423	10447	10485	10463	10497	10497	10507	10536	10516	10499	10451	10438	10424	10404	10416
12	10372	10376	10378	10408	10440	10445	10459	10464	10478	10497	10491	10466	10420	10399	10368	10368	10372
13	10335	10337	10332	10365	10394	10404	10416	10416	10444	10450	10438	10428	10377	10358	10325	10338	10335
14	10278	10278	10281	10315	10355	10367	10382	10380	10409	10405	10391	10374	10325	10314	10284	10284	10278
15	10210	10230	10237	10264	10303	10320	10316	10341	10369	10366	10338	10328	10275	10256	10237	10229	10210
16	10152	10178	10186	10210	10256	10272	10277	10304	10321	10327	10295	10286	10228	10197	10191	10166	10152
17	10099	10123	10125	10152	10210	10219	10223	10246	10265	10276	10245	10234	10175	10154	10135	10111	10099
18	10052	10066	10056	10088	10150	10165	10174	10198	10211	10225	10196	10182	10109	10090	10076	10056	10052
19	9984	9995	9998	10023	10085	10104	10119	10141	10154	10166	10141	10123	10042	10015	10015	10001	9984
20	9904	9918	9939	9948	10016	10040	10058	10075	10097	10113	10073	10058	9982	9954	9939	9928	9904
21	9846	9862	9869	9876	9948	9970	10000	10018	10030	10047	10012	9990	9913	9882	9866	9865	9846
22	9760	9788	9788	9811	9881	9895	9926	9964	9963	9978	9939	9928	9847	9813	9800	9795	9760
23	9689	9709	9709	9729	9806	9823	9856	9889	9899	9924	9883	9853	9774	9732	9717	9710	9689
24	9609	9628	9625	9645	9724	9742	9781	9812	9820	9853	9812	9775	9688	9649	9633	9628	9609
25	9525	9540	9544	9555	9637	9668	9708	9750	9750	9771	9733	9707	9611	9563	9542	9540	9525
26	9434	9450	9452	9465	9548	9593	9623	9664	9679	9685	9649	9619	9510	9468	9457	9440	9434
27	9341	9364	9359	9369	9458	9498	9530	9581	9601	9605	9565	9526	9412	9366	9355	9346	9341
28	9227	9254	9253	9267	9363	9397	9438	9493	9511	9521	9468	9426	9312	9266	9253	9245	9227
29	9123	9152	9141	9162	9251	9299	9345	9403	9418	9418	9369	9327	9189	9159	9136	9125	9123
30	9012	9027	9027	9032	9138	9189	9250	9301	9328	9312	9264	9210	9071	9026	9020	9005	9012
31	8884	8902	8902	8915	9022	9071	9137	9180	9218	9213	9150	9088	8932	8899	8891	8886	8884
32	8761	8771	8767	8784	8879	8949	9015	9063	9096	9094	9033	8953	8782	8744	8751	8754	8761
33	8602	8629	8614	8635	8742	8807	8884	8949	8987	8973	8890	8815	8631	8590	8596	8606	8602
34	8458	8476	8464	8476	8597	8663	8740	8822	8858	8842	8752	8664	8455	8417	8432	8460	8458
35	8296	8320	8297	8301	8431	8500	8590	8678	8713	8706	8600	8497	8252	8236	8241	8284	8296
36	8104	8136	8103	8102	8236	8323	8441	8521	8563	8548	8427	8302	8037	8017	8049	8097	8104
37	7903	7925	7901	7889	8031	8144	8251	8360	8405	8379	8240	8091	7785	7791	7827	7886	7903
38	7672	7705	7671	7669	7804	7928	8067	8176	8226	8190	8039	7853	7503	7521	7572	7634	7672
39	7409	7435	7424	7400	7543	7679	7848	7975	8034	7982	7801	7605	7215	7230	7297	7349	7409
40	7110	7134	7126	7107	7262	7432	7600	7739	7800	7734	7560	7316	6920	6924	6984	7037	7110
41	6766	6818	6816	6819	6985	7146	7331	7472	7545	7457	7252	7022	6632	6583	6607	6706	6766
42	6379	6445	6453	6496	6685	6852	7022	7164	7233	7136	6927	6686	6340	6233	6197	6343	6379
43	5954	6063	6033	6150	6401	6521	6667	6827	6890	6776	6510	6346	6032	5879	5781	5973	5954
44	5558	5657	5617	5799	6107	6189	6279	6476	6499	6390	6076	5984	5711	5515	5401	5583	5558
45	5199	5248	5213	5439	5799	5817	5865	6099	6050	5993	5646	5602	5354	5158	5039	5148	5199
46	4875	4800	4844	5075	5477	5457	5464	5697	5642	5570	5260	5213	4976	4842	4701	4708	4875

47	4596	4366	4534	4753	5117	5113	5101	5292	5285	5148	4902	4873	4553	4558	4415	4252	4596
48	4343	3978	4232	4471	4736	4801	4772	4838	4968	4682	4593	4569	4126	4302	4129	3826	4343
49	4090	3608	3956	4195	4309	4513	4463	4384	4672	4217	4297	4282	3696	4054	3862	3480	4090
50	3864	3309	3674	3949	3908	4245	4190	3960	4402	3806	4028	4014	3356	3839	3598	3183	3864
51	3658	3039	3426	3714	3526	4010	3908	3578	4164	3470	3760	3776	3046	3622	3357	2921	3658
52	3446	2808	3163	3497	3174	3771	3648	3272	3925	3181	3511	3539	2787	3420	3099	2701	3446
53	3259	2599	2930	3295	2898	3562	3394	3004	3705	2919	3266	3334	2559	3220	2877	2491	3259
54	3083	2408	2703	3111	2662	3365	3146	2769	3508	2705	3041	3122	2358	3043	2675	2306	3083
55	2908	2226	2506	2936	2446	3172	2907	2562	3314	2499	2808	2939	2168	2869	2492	2128	2908
56	2744	2065	2333	2781	2247	2984	2696	2371	3126	2307	2610	2778	1999	2709	2340	1970	2744
57	2598	1912	2181	2642	2075	2823	2507	2196	2956	2136	2437	2631	1842	2563	2201	1821	2598
58	2473	1766	2041	2514	1903	2666	2349	2030	2795	1978	2282	2496	1697	2426	2074	1681	2473
59	2354	1635	1921	2390	1760	2521	2202	1875	2645	1827	2141	2374	1561	2304	1964	1555	2354
60	2249	1514	1812	2272	1621	2395	2081	1734	2507	1689	2015	2262	1447	2188	1860	1440	2249
61	2149	1409	1713	2167	1500	2278	1963	1602	2387	1563	1898	2153	1341	2079	1768	1342	2149
62	2068	1312	1629	2053	1383	2165	1858	1483	2276	1449	1796	2048	1247	1971	1685	1250	2068
63	1995	1232	1555	1956	1289	2059	1762	1379	2173	1346	1708	1949	1171	1870	1613	1177	1995
64	1911	1167	1491	1860	1201	1955	1679	1288	2086	1256	1632	1852	1104	1784	1549	1117	1911
65	1820	1116	1439	1769	1127	1856	1604	1211	2010	1180	1561	1763	1049	1702	1492	1073	1820
66	1725	1079	1393	1692	1063	1767	1538	1149	1929	1120	1504	1687	1010	1631	1441	1047	1725
67	1622	1058	1353	1618	1016	1691	1479	1104	1836	1076	1457	1621	983	1559	1396	1035	1622
68	1512	1049	1320	1550	984	1619	1432	1073	1735	1049	1412	1556	969	1488	1351	1038	1512
69	1407	1053	1290	1488	964	1551	1387	1058	1629	1039	1368	1499	962	1416	1308	1048	1407
70	1295	1061	1259	1425	956	1484	1347	1058	1522	1039	1327	1437	953	1340	1259	1058	1295
71	1182	1066	1221	1355	951	1408	1306	1068	1413	1046	1285	1373	935	1260	1208	1064	1182
72	1073	1064	1177	1285	940	1332	1260	1078	1303	1053	1237	1302	922	1185	1156	1058	1073
73	975	1054	1129	1213	924	1256	1213	1082	1190	1058	1188	1229	910	1115	1096	1041	975
74	880	1030	1073	1136	908	1178	1160	1079	1079	1055	1130	1158	890	1046	1031	1003	880
75	795	989	1016	1060	891	1104	1105	1059	975	1037	1071	1082	859	978	970	957	795
76	723	938	960	989	866	1035	1040	1028	880	1003	1013	1006	811	908	906	902	723
77	667	874	897	913	832	966	979	979	796	957	950	929	758	837	838	837	667
78	626	801	830	838	784	893	917	922	722	900	884	851	701	764	771	767	626
79	600	726	755	767	733	822	851	856	664	832	811	773	646	699	701	690	600
80	583	649	683	696	682	755	783	784	625	755	735	697	584	637	637	612	583
81	565	568	614	628	623	688	715	710	600	676	662	624	512	578	574	536	565
82	538	497	552	569	556	628	649	631	583	595	596	562	440	510	516	466	538
83	492	433	492	506	481	571	586	549	566	520	535	493	368	431	453	410	492
84	424	378	425	436	407	506	526	477	536	453	472	415	289	340	378	353	424
85	347	316	349	348	335	428	463	420	483	395	400	321	202	241	285	289	347
86	266	245	258	242	256	339	393	364	416	335	315	224	136	155	182	215	266
87	177	163	158	151	166	238	303	297	338	265	214	145	89	92	99	133	177
88	85	76	83	88	106	145	199	223	249	187	120	85	41	37	42	46	85
89	15	20	30	38	61	84	104	142	160	100	60	31	11	10	9	8	15
90	6	7	8	11	20	31	43	51	69	32	11	8	8	8	7	6	6
91	7	7	7	8	7	9	8	7	6	6	6	6	7	7	7	7	7
92	7	7	7	7	6	6	6	5	5	5	5	6	7	8	7	7	7
93	8	8	7	8	5	5	5	5	5	6	5	6	7	8	8	7	8
94	8	8	8	8	5	6	5	5	5	6	6	6	8	8	8	8	8
95	9	9	8	9	6	6	6	6	6	6	6	6	8	9	8	9	9

96	9	9	9	9	6	6	6	6	6	6	6	7	9	9	9	9	9
97	10	10	9	10	7	7	6	6	6	7	6	7	9	10	9	10	10
98	10	10	10	10	7	7	7	7	7	7	7	7	10	10	10	10	10
99	11	11	10	11	7	8	7	7	7	7	7	7	10	11	10	11	11
100	11	12	11	11	8	8	8	8	8	8	7	8	11	11	11	11	11
101	12	12	12	12	8	8	8	8	8	8	8	9	12	12	12	12	12
102	13	13	12	12	9	9	9	9	8	9	8	9	12	13	13	13	13
103	14	14	13	13	9	9	9	9	9	9	9	10	13	13	14	14	14
104	14	15	14	14	10	10	10	10	10	10	10	10	14	14	14	15	14
105	15	15	14	15	11	10	10	10	10	10	10	11	15	15	15	16	15
106	16	16	16	16	11	11	10	11	10	11	11	12	16	16	16	16	16
107	17	17	16	17	12	11	11	11	11	12	11	12	17	17	17	17	17
108	18	18	17	17	12	12	12	12	12	12	12	12	18	18	18	18	18
109	19	19	18	18	13	13	13	13	12	13	13	13	19	18	19	19	19
110	20	21	19	19	14	14	13	13	13	14	13	14	20	19	20	20	20
111	21	21	20	20	15	14	14	14	14	15	14	15	20	21	21	21	21
112	22	22	21	21	16	15	15	15	15	15	15	16	22	22	22	22	22
113	23	23	22	22	16	16	16	16	16	16	16	16	23	23	23	23	23
114	24	25	23	23	17	16	16	17	16	17	17	17	24	23	24	25	24
115	25	26	24	24	18	18	17	18	17	18	18	18	25	24	25	26	25
116	26	27	25	25	19	18	18	19	18	19	18	19	26	26	26	27	26
117	27	28	27	26	20	19	19	20	19	20	19	20	27	27	27	28	27
118	28	29	28	28	21	20	20	20	20	21	20	21	28	27	28	29	28
119	30	30	29	29	22	21	21	21	21	22	21	22	29	29	29	30	30
120	31	32	30	30	23	22	22	22	22	23	22	23	30	30	31	31	31
121	32	33	31	31	24	23	23	23	23	24	23	23	31	31	32	33	32
122	33	34	32	32	25	24	24	24	23	25	24	24	33	32	33	33	33
123	34	35	33	34	26	25	25	25	25	25	25	26	34	34	34	35	34
124	35	36	34	34	27	26	26	26	26	27	26	26	35	35	35	36	35
125	37	38	36	36	28	27	27	27	27	28	27	28	36	36	37	37	37
126	38	38	37	37	29	28	28	29	27	29	28	29	37	37	37	38	38
127	39	39	38	38	30	29	29	30	29	30	29	30	38	38	38	39	39
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130	42	42	41	41	33	32	32	33	32	33	32	33	42	41	42	43	42
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135	47	48	46	46	38	37	37	38	37	38	37	38	47	46	47	47	47
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137	49	50	48	48	40	39	39	40	39	40	39	40	48	48	49	49	49
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141	53	53	52	52	43	43	43	43	43	43	43	43	52	52	52	53	53
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143	55	55	54	54	45	45	45	45	45	45	45	45	54	54	54	55	55
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146	57	57	57	57	48	48	48	48	48	48	48	48	56	56	57	57	57
147	58	58	57	57	49	49	49	49	49	49	49	49	57	57	57	58	58
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156	66	67	65	66	59	59	58	59	59	59	58	59	65	65	66	66	66
157	68	67	66	67	60	60	59	60	60	60	59	60	66	66	66	67	68
158	68	68	67	68	61	62	61	61	61	61	60	61	67	67	67	68	68
159	69	69	68	69	62	62	62	62	62	63	61	62	68	68	68	69	69
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164	73	74	72	73	68	68	68	68	68	69	68	68	72	72	72	73	73
165	74	74	73	74	69	69	69	69	69	69	68	69	73	73	73	74	74
166	75	75	74	75	70	70	70	70	70	70	70	70	74	74	74	75	75
167	75	76	75	75	71	71	71	71	71	71	70	71	74	74	74	75	75
168	76	76	75	76	73	72	72	72	72	72	72	72	75	75	75	76	76
169	76	77	76	76	74	73	73	73	73	73	72	73	76	75	76	76	76
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176	78	78	78	79	79	78	77	77	77	77	77	78	79	78	78	78	78
177	78	79	78	79	79	78	77	77	78	78	77	78	79	78	78	78	78
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179	79	79	78	79	79	79	78	78	78	78	78	79	79	78	78	78	79
180	78	78	78	79	79	79	78	78	78	78	78	79	79	79	78	78	78

**Luminaire Report Summary**

IESNA:LM-63-1995  
[TEST]  
[ISSUEDATE] 2022/7/30 03:08  
[MANUFAC]  
[LUMCAT]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[\_VOLTAGE] 121.4 V  
[\_CURRENT] 1.364 A  
[\_POWERFACTOR] 0.999  
[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.