

Photometrics Pro

Luminaire Photometric Report

Filename: SP06-750W-RGB

Lamp Output: 1 lamp, rated Lumens/lamp: 44002.6

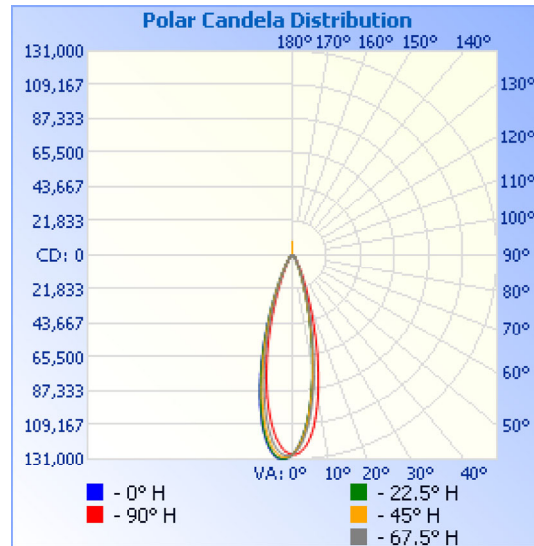
Max Candela: 130,995.7 at Horizontal: 180°, Vertical: 3°

Input Wattage: 748.5

Luminous Opening: Point

Photometry : Type C

Nema Type: 4 X 4

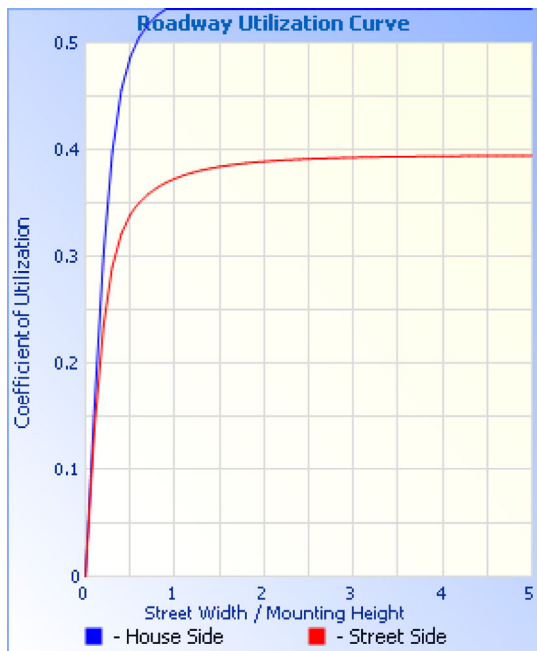
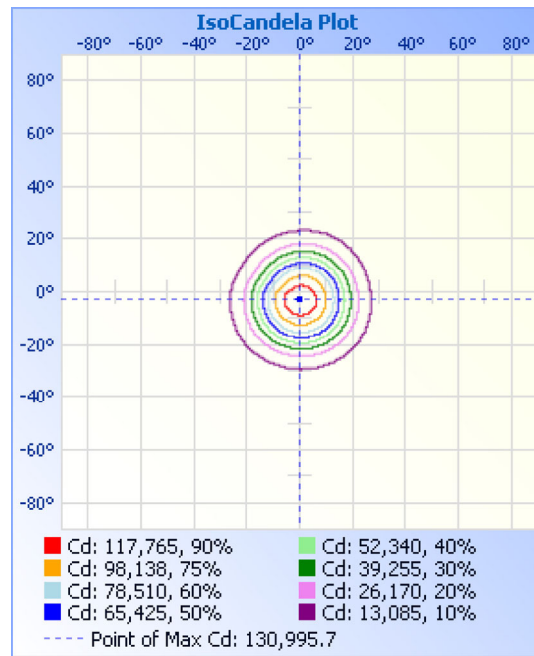
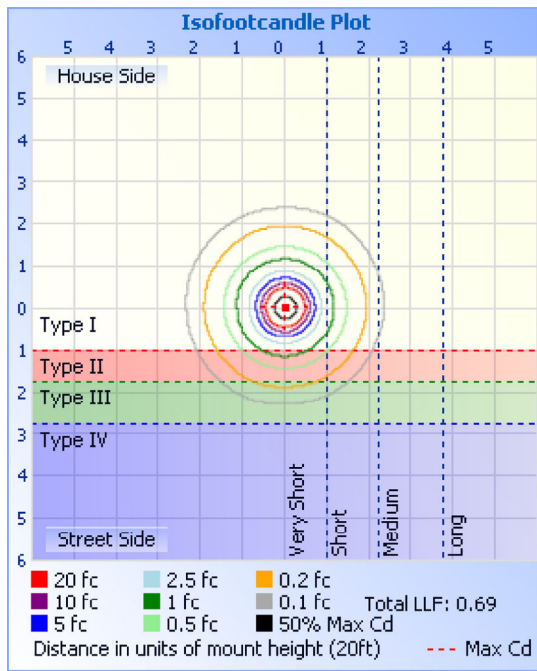


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE I, VERY SHORT	
Max Cd, 90 Deg Vert:	114.4	
Max Cd, 80 to <90 Deg:	462.6	
	Lumens	% Lamp
Downward Street Side:	18,119.5	41.2%
Downward House Side:	25,170.0	57.2%
Downward Total:	43,289.5	98.4%
Upward Street Side:	401.8	0.9%
Upward House Side:	311.3	0.7%
Upward Total:	713.2	1.6%
Total Lumens:	44,002.7	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	74.3%	32,675.1	53.3	52.7
Beam (50%):	42.4%	18,641.6	28.9	28.3
Total:	99.9%	43,947.6		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	34,545.6	78.5%	78.6%
0-40	37,958.8	86.3%	86.3%
0-60	41,439.9	94.2%	94.2%
60-90	1,820.6	4.1%	4.1%
70-100	831.8	1.9%	1.9%
90-120	190.3	0.4%	0.4%
0-90	43,260.5	98.3%	98.4%
90-180	712.8	1.6%	1.6%
0-180	43,973.3	99.9%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	10,457.4	23.8%	90-100	61.6	0.1%
10-20	16,264.8	37.0%	100-110	63.4	0.1%
20-30	7,823.4	17.8%	110-120	65.3	0.1%
30-40	3,413.2	7.8%	120-130	73.8	0.2%
40-50	2,019.9	4.6%	130-140	95.4	0.2%
50-60	1,461.2	3.3%	140-150	125.7	0.3%
60-70	1,050.4	2.4%	150-160	122.6	0.3%
70-80	600.4	1.4%	160-170	79.6	0.2%
80-90	169.8	0.4%	170-180	25.4	0.1%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	458 fc	8.4 ft	8.6 ft
33.3ft	115 fc	16.8 ft	17.2 ft
50.0ft	51.1 fc	25.2 ft	25.8 ft
66.7ft	28.7 fc	33.6 ft	34.4 ft
83.3ft	18.4 fc	42.0 ft	43.0 ft
100.0ft	12.8 fc	50.4 ft	51.6 ft

Vert. Spread: 28.3°
Horiz. Spread: 28.9°

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	.98	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.98
1	1.13	1.10	1.08	1.06	1.10	1.08	1.06	.93	1.04	1.02	1.00	1.00	1.00	.98	.97	.96	.96	.95	.94	.92	.96	.95	.94	.92
2	1.08	1.03	.99	.96	1.05	1.01	.98	.87	.98	.95	.92	.92	.95	.92	.90	.92	.92	.90	.88	.86	.92	.90	.88	.86
3	1.03	.97	.92	.88	1.01	.95	.91	.82	.93	.89	.86	.86	.90	.87	.85	.88	.88	.85	.83	.81	.88	.85	.83	.81
4	.99	.92	.86	.83	.97	.90	.86	.78	.88	.84	.81	.81	.86	.82	.80	.84	.84	.81	.79	.77	.84	.81	.79	.77
5	.95	.87	.82	.78	.93	.86	.81	.74	.84	.80	.76	.76	.82	.79	.76	.81	.81	.77	.75	.73	.81	.77	.75	.73
6	.91	.83	.77	.74	.89	.82	.77	.71	.80	.76	.73	.73	.79	.75	.72	.77	.77	.74	.71	.70	.77	.74	.71	.70
7	.87	.79	.74	.70	.86	.78	.73	.68	.77	.73	.69	.69	.76	.72	.69	.75	.75	.71	.68	.67	.75	.71	.68	.67

8	.84	.76	.70	.67	.83	.75	.70	.65	.74	.70	.66	.73	.69	.66	.72	.68	.66	.64
9	.81	.73	.68	.64	.80	.72	.67	.63	.71	.67	.64	.70	.66	.63	.69	.66	.63	.62
10	.78	.70	.65	.62	.77	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.61	.60

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	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861	127861
1	125283	125372	125548	126201	127802	128406	128979	129462	129731	129699	129118	128749	127246	126511	125876	125472	125283
2	121991	122097	122429	123758	126918	128228	129397	130389	130705	130746	129735	128645	126069	124739	123503	122511	121991
3	117906	117818	118603	120346	125162	127387	129224	130593	130996	130856	129497	127720	124020	121979	120299	118906	117906
4	113083	112912	113855	116151	122831	125835	128196	130022	130584	130308	128465	125962	121291	118840	116389	114465	113083
5	107764	107403	108552	111429	119786	123395	126534	128686	129398	128786	126573	123592	118082	114853	111989	109397	107764
6	101894	101371	102296	105899	115927	120404	124107	126369	127141	126443	123967	120389	113918	110364	107003	103903	101894
7	95401	94736	95797	99725	111471	116411	120627	123365	124152	123345	120428	116169	109357	105216	101067	97710	95401
8	88539	87675	88882	93062	105931	111779	116508	119502	120394	119449	116308	111466	104098	99542	95214	91120	88539
9	81658	80700	82035	86343	100298	106395	111869	114814	115891	115103	111475	106180	98629	93547	88848	84386	81658
10	74427	73511	75157	79141	93734	100329	106136	109608	110929	109692	105842	100417	92715	87008	81925	77345	74427
11	67625	66432	67907	72183	87070	93932	100128	103728	105114	103848	100008	94078	86502	80688	75301	70575	67625
12	60944	60120	61486	65330	80060	87061	93403	97680	99207	97908	93856	87831	80207	74071	68617	63955	60944
13	54517	53437	54816	58538	72787	80095	86612	90819	92436	91151	87070	80960	73326	67384	61916	57317	54517
14	48254	47496	48542	52407	66223	73082	79300	83935	85646	84401	80411	74443	67154	61093	55471	51232	48254
15	42632	41896	42787	46209	59565	66282	72342	77026	78760	77614	73790	68061	60976	54720	49541	45497	42632
16	37283	36296	37447	40581	52878	59346	65598	70117	71637	70723	67095	61472	54640	48767	43844	39810	37283
17	32406	31451	32248	35553	46905	52854	58658	63166	64956	64040	60681	55304	48703	43110	38368	34953	32406
18	28073	27068	27914	30727	41084	46771	52363	56667	58439	57594	54499	49388	43280	37773	33442	30247	28073
19	24218	23428	23972	26458	35779	41161	46265	50432	52024	51367	48628	44078	37998	32863	28773	26010	24218
20	20859	20141	20786	22826	30965	35735	40705	44299	46064	45639	42909	38744	32986	28213	24839	22526	20859
21	18136	17652	18022	19843	26837	31109	35457	38829	40315	39960	37728	33807	28477	24309	21480	19565	18136
22	15837	15327	15831	17369	23283	26969	30722	33726	35316	35158	32864	29312	24401	20838	18568	17061	15837
23	13864	13470	13854	15201	20296	23403	26346	29092	30348	30209	28403	25245	20683	17877	16147	14877	13864
24	12272	11936	12187	13443	17714	20418	22926	25053	26185	26058	24540	21766	17772	15596	14192	13035	12272
25	10917	10597	10869	11875	15588	17764	19859	21671	22651	22515	21061	18808	15489	13653	12453	11573	10917
26	9688	9459	9691	10602	13691	15685	17367	18662	19480	19399	18223	16365	13509	12048	11048	10309	9688
27	8696	8485	8654	9450	12180	13801	15143	16315	16944	16873	15910	14270	11905	10662	9852	9226	8696
28	7758	7639	7781	8482	10839	12249	13439	14311	14796	14724	13921	12574	10517	9495	8752	8287	7758
29	7014	6829	6988	7600	9680	10899	11861	12614	13017	12983	12303	11165	9393	8506	7909	7420	7014
30	6287	6227	6298	6890	8602	9685	10587	11152	11486	11474	10900	9965	8409	7617	7120	6704	6287
31	5737	5630	5773	6204	7747	8660	9392	9966	10245	10281	9752	8893	7560	6877	6397	6060	5737
32	5228	5125	5212	5641	6945	7760	8411	8895	9168	9179	8782	8078	6804	6202	5775	5513	5228
33	4744	4663	4766	5102	6248	6984	7527	8004	8224	8266	7879	7313	6160	5615	5279	5019	4744
34	4375	4285	4370	4710	5645	6291	6779	7192	7425	7456	7134	6608	5557	5136	4830	4598	4375
35	4042	3987	4022	4330	5124	5627	6122	6469	6729	6726	6451	6008	5100	4703	4424	4225	4042
36	3728	3664	3753	3950	4638	5141	5518	5850	6070	6117	5822	5518	4673	4300	4077	3900	3728
37	3449	3403	3485	3669	4240	4703	5046	5338	5525	5557	5364	5047	4304	3992	3766	3623	3449
38	3250	3202	3247	3424	3894	4283	4585	4869	5035	5107	4949	4648	3970	3696	3497	3400	3250
39	3032	3007	3045	3203	3595	3939	4244	4465	4648	4675	4534	4330	3695	3430	3294	3153	3032
40	2874	2806	2856	2995	3350	3619	3880	4116	4272	4316	4193	3987	3414	3216	3091	2973	2874
41	2711	2684	2691	2836	3109	3370	3593	3846	3946	4011	3918	3711	3215	3039	2881	2816	2711
42	2566	2538	2557	2683	2916	3157	3336	3539	3673	3701	3625	3454	3016	2831	2732	2660	2566
43	2439	2410	2411	2536	2735	2974	3133	3322	3389	3470	3412	3270	2822	2689	2571	2540	2439
44	2318	2301	2319	2407	2582	2766	2917	3093	3183	3250	3192	3056	2670	2535	2421	2395	2318
45	2209	2167	2203	2303	2448	2618	2774	2913	2995	3043	2978	2879	2530	2393	2343	2293	2209
46	2088	2076	2118	2205	2325	2488	2595	2762	2808	2849	2826	2744	2395	2286	2218	2179	2088
47	2009	2003	2008	2088	2219	2357	2439	2612	2657	2715	2649	2566	2307	2180	2116	2088	2009
48	1930	1917	1916	2009	2108	2257	2331	2455	2523	2538	2520	2419	2167	2079	2039	1992	1930
49	1809	1850	1849	1917	2032	2132	2248	2365	2390	2392	2398	2321	2067	1984	1943	1908	1809
50	1743	1771	1758	1837	1944	2049	2122	2221	2275	2295	2289	2242	2003	1901	1841	1836	1743

51	1670	1692	1697	1788	1856	1961	2051	2130	2148	2179	2185	2107	1909	1801	1776	1751	1670
52	1628	1631	1648	1709	1786	1866	1961	2046	2003	2076	2075	2021	1821	1741	1692	1673	1628
53	1555	1570	1587	1623	1710	1789	1853	1944	1943	1984	1990	1911	1763	1670	1626	1631	1555
54	1489	1540	1520	1580	1651	1706	1805	1842	1870	1881	1898	1831	1657	1582	1548	1583	1489
55	1440	1455	1452	1507	1593	1664	1728	1787	1767	1826	1806	1764	1616	1528	1506	1499	1440
56	1392	1412	1440	1476	1528	1587	1644	1703	1694	1735	1739	1672	1569	1475	1459	1444	1392
57	1307	1370	1349	1433	1470	1528	1602	1643	1622	1656	1672	1605	1493	1410	1405	1384	1307
58	1277	1297	1337	1335	1429	1469	1530	1571	1549	1589	1587	1550	1417	1339	1351	1354	1277
59	1216	1242	1245	1298	1359	1416	1459	1517	1470	1516	1507	1464	1376	1315	1309	1330	1216
60	1186	1205	1196	1243	1300	1374	1387	1486	1410	1479	1440	1415	1335	1256	1237	1252	1186
61	1120	1144	1147	1182	1253	1303	1339	1396	1374	1400	1385	1354	1282	1197	1184	1204	1120
62	1065	1077	1092	1145	1189	1256	1303	1342	1325	1327	1312	1298	1218	1167	1142	1125	1065
63	1011	1053	1050	1035	1159	1191	1237	1282	1277	1297	1269	1243	1200	1102	1100	1089	1011
64	968	980	1001	1029	1083	1137	1184	1240	1210	1254	1245	1164	1107	1037	1010	1041	968
65	932	943	958	955	1025	1078	1124	1204	1162	1199	1172	1145	1107	995	962	987	932
66	871	907	903	894	1007	1025	1094	1119	1089	1114	1123	1066	1036	960	951	939	871
67	787	852	860	870	937	983	1040	1125	1047	1090	1086	1066	972	918	897	909	787
68	769	779	787	808	867	930	992	1041	992	1035	1037	1011	943	865	843	837	769
69	726	749	714	741	837	900	927	981	968	992	983	949	884	817	807	788	726
70	702	706	671	729	761	823	849	957	920	943	934	900	873	764	771	758	702
71	641	633	647	680	744	758	843	897	841	877	891	839	802	723	729	716	641
72	593	597	586	606	656	711	771	849	787	852	812	808	750	687	652	650	593
73	533	542	549	582	627	657	735	818	756	779	763	741	714	640	604	626	533
74	490	499	488	533	550	628	658	764	726	749	720	723	638	586	562	566	490
75	448	438	439	478	509	551	634	704	648	682	690	655	609	545	526	512	448
76	418	383	391	429	468	533	586	650	623	645	635	606	562	498	460	463	418
77	339	347	342	380	433	474	514	590	569	603	574	570	498	438	412	439	339
78	297	298	299	325	375	462	466	536	496	548	537	521	457	397	383	361	297
79	260	250	244	269	322	409	407	475	472	505	500	484	410	344	347	331	260
80	224	201	208	220	287	344	365	445	442	463	452	435	375	326	263	277	224
81	175	177	177	214	234	284	329	391	387	402	409	392	322	272	245	247	175
82	133	128	134	153	193	243	299	331	333	365	366	331	234	231	185	199	133
83	109	110	104	92	135	213	233	295	303	268	299	282	246	184	149	162	109
84	79	67	55	104	111	154	179	241	260	268	226	251	182	142	132	126	79
85	54	67	67	73	82	118	167	205	206	213	232	190	141	113	126	108	54
86	42	61	49	49	53	101	137	150	175	170	171	171	117	113	78	108	42
87	42	37	61	67	41	77	114	126	133	116	146	116	100	71	72	102	42
88	73	55	55	67	29	47	108	114	97	91	110	92	70	41	78	96	73
89	54	49	61	37	35	47	48	96	48	67	98	67	35	59	72	102	54
90	42	30	67	49	41	59	60	72	61	49	79	61	59	77	66	114	42
91	54	55	55	61	29	77	60	84	48	43	0	37	64	65	72	66	54
92	54	61	55	61	23	36	60	96	61	43	55	67	70	59	60	72	54
93	79	49	61	49	18	53	42	96	48	18	43	67	59	41	66	96	79
94	61	73	55	55	35	53	54	84	42	24	18	49	47	53	72	96	61
95	54	61	31	61	23	59	66	84	61	55	37	55	47	65	60	66	54
96	42	61	49	67	0	53	66	90	54	30	6	49	59	65	66	90	42
97	54	24	55	67	23	59	78	102	54	37	55	61	59	47	66	84	54
98	61	55	61	67	35	53	66	84	67	55	24	43	70	77	72	84	61
99	54	73	67	55	23	59	66	66	73	49	67	49	59	47	66	66	54
100	61	67	49	18	0	18	66	78	0	55	49	61	64	65	66	90	61
101	67	79	61	67	23	53	54	78	36	55	43	55	70	71	66	102	67
102	61	37	73	67	35	59	66	90	67	0	49	67	35	71	60	90	61
103	67	55	61	67	29	30	72	84	48	49	43	61	70	71	66	90	67
104	67	73	55	67	41	59	78	72	54	67	43	0	53	71	36	120	67

105	61	61	61	61	29	59	60	78	67	49	43	73	70	65	66	102	61
106	67	61	61	80	35	59	66	90	6	37	49	61	76	59	72	108	67
107	48	67	55	61	35	53	66	96	61	30	0	67	76	77	78	102	48
108	48	49	73	67	35	59	54	66	54	55	55	49	64	59	78	84	48
109	0	61	49	80	29	41	66	78	54	49	61	49	70	47	90	102	0
110	79	61	67	73	41	71	78	90	73	37	55	61	53	65	42	84	79
111	67	73	67	67	47	36	72	72	42	37	55	55	59	65	48	114	67
112	67	61	73	67	59	71	72	84	18	67	67	55	76	65	84	108	67
113	73	79	79	80	29	53	72	96	48	61	0	80	59	65	84	114	73
114	73	67	67	67	41	59	66	90	54	67	31	31	59	83	78	126	73
115	79	73	55	80	29	77	66	72	48	49	43	73	64	77	84	120	79
116	42	30	73	73	35	41	54	84	54	55	49	73	76	47	66	90	42
117	36	67	31	86	29	65	66	108	67	61	67	61	0	77	84	96	36
118	73	79	67	80	35	18	78	90	54	61	55	67	41	71	96	96	73
119	79	49	73	86	29	65	30	90	42	61	61	67	76	83	96	120	79
120	79	85	79	86	41	77	54	102	61	67	67	67	88	77	84	102	79
121	85	85	67	86	53	83	42	102	67	61	55	61	88	95	102	120	85
122	73	91	92	86	35	24	84	108	79	30	61	55	82	65	0	96	73
123	85	91	85	80	53	71	78	84	85	55	67	80	82	77	102	108	85
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145	254	250	232	257	129	160	173	169	182	146	146	165	228	237	257	289	254
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159	309	317	305	312	246	261	263	277	242	256	232	251	322	338	323	343	309
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165	297	286	281	269	228	272	245	295	248	250	244	276	340	320	317	319	297
166	290	286	287	312	234	267	269	295	248	250	256	269	322	296	311	349	290
167	230	262	293	276	228	261	251	283	272	256	238	245	322	290	311	313	230
168	290	304	262	269	223	261	263	301	242	250	262	276	322	284	317	319	290
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176	248	262	256	251	223	261	269	277	254	213	256	233	293	278	287	307	248
177	266	237	244	257	211	267	287	277	260	219	250	251	304	284	269	301	266
178	236	256	262	257	234	267	287	277	254	243	256	245	293	284	251	313	236
179	254	243	244	239	228	261	275	289	248	243	250	239	287	272	281	283	254
180	260	256	238	251	240	278	263	301	254	256	8861	257	269	255	257	301	260

Luminaire Report Summary

IESNA: LM-63-2002
[TEST]
[ISSUEDATE] 2022/8/1 h 15:45
[MANUFAC]
[LUMCAT]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 277.6 V
[_CURRENT] 2.896 A
[_POWERFACTOR] 0.931
[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.