

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** PHB10-320W-120V-5000K\_1243

**Lamp Output:** 1 lamp, rated Lumens/lamp: 45237.1

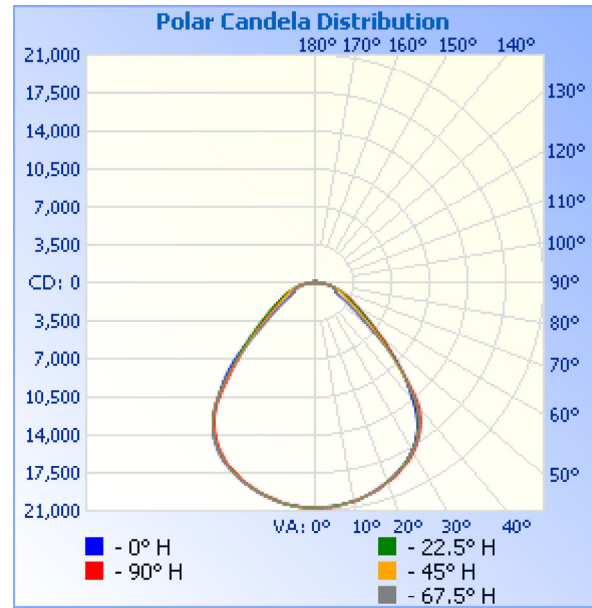
**Max Candela:** 20,762.7 at Horizontal: 270°, Vertical: 2°

**Input Wattage:** 323.3

**Luminous Opening:** Point

**Photometry :** Type C

**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	36.3
Max Cd, 80 to <90 Deg:	1,398.4
	Lumens % Lamp
Downward Street Side:	22,345.4 49.4%
Downward House Side:	22,525.8 49.8%
Downward Total:	44,871.2 99.2%
Upward Street Side:	197.1 0.4%
Upward House Side:	168.9 0.4%
Upward Total:	365.9 0.8%
<b>Total Lumens:</b>	<b>45,237.1 100%</b>

### Flood Summary

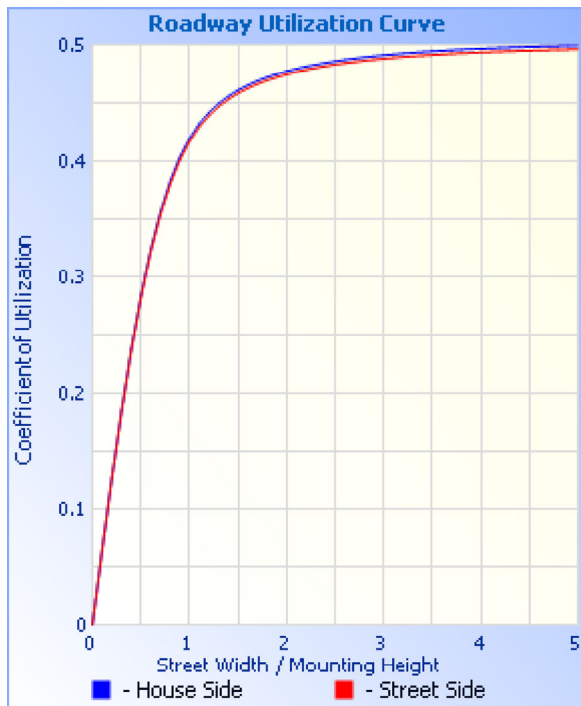
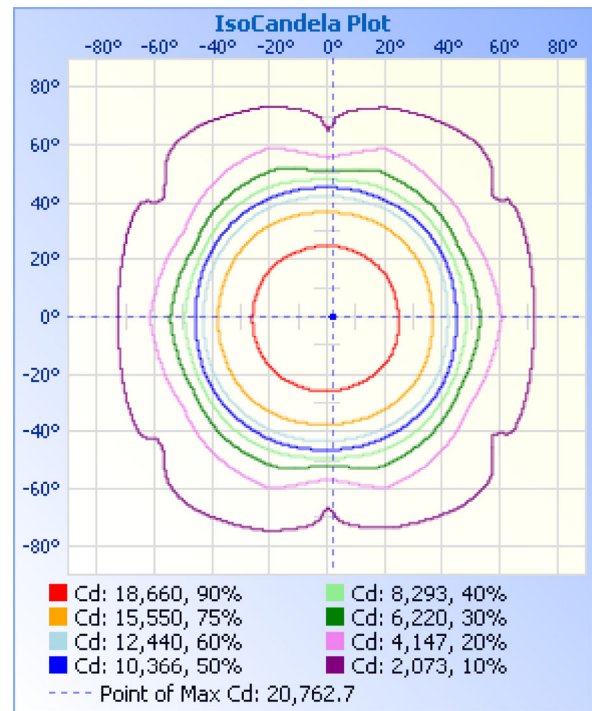
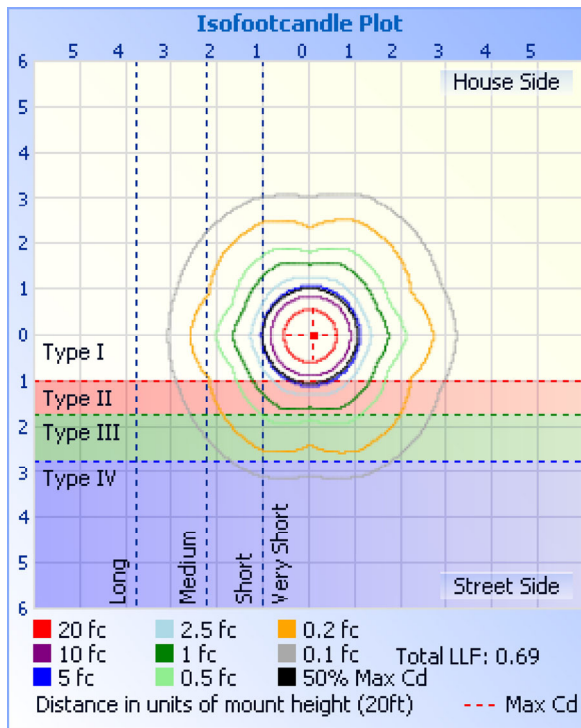
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	42,821.1	144.9	138.9
Beam (50%):	69.3%	31,335.4	90.8	91.6
<b>Total:</b>	<b>100%</b>	<b>45,218.6</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	16,230.6	35.9%	35.9%
0-40	26,410.2	58.4%	58.4%
0-60	39,354.3	87%	87%
60-90	5,511.2	12.2%	12.2%
70-100	2,632.9	5.8%	5.8%
90-120	83.1	0.2%	0.2%
0-90	44,865.5	99.2%	99.2%
90-180	365.8	0.8%	0.8%
0-180	45,231.3	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,960.8	4.3%	90-100	16.1	0%
10-20	5,641.2	12.5%	100-110	26.1	0.1%
20-30	8,628.6	19.1%	110-120	40.8	0.1%
30-40	10,179.6	22.5%	120-130	54.5	0.1%
40-50	8,224.2	18.2%	130-140	61.7	0.1%
50-60	4,719.9	10.4%	140-150	61.1	0.1%
60-70	2,894.4	6.4%	150-160	53.5	0.1%
70-80	1,953.3	4.3%	160-170	38.0	0.1%
80-90	663.5	1.5%	170-180	13.9	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
4.3R	1,120 fc	8.8 ft	8.7 ft
8.7R	274 fc	17.9 ft	17.7 ft
13.0R	122 fc	26.7 ft	26.4 ft
17.3R	69.2 fc	35.6 ft	35.1 ft
21.7R	44.0 fc	44.6 ft	44.0 ft
26.0R	30.6 fc	53.5 ft	52.8 ft

■ Vert. Spread: 91.6°  
 ■ Horiz. Spread: 90.8°

**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	50	30	20	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	1.06	1.06	1.06	1.01	1.01	1.01	.99
1	1.10	1.06	1.02	.99	1.07	1.04	1.00	.87	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2	1.01	.94	.88	.83	.99	.92	.87	.76	.89	.84	.80	.85	.82	.78	.82	.79	.77	.75
3	.94	.84	.77	.71	.91	.83	.76	.66	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65

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



47	9548	9548	9369	9360	9935	9605	9453	9619	9654	9343	8934	8685	8907	8363	8674	9187	9548
48	8730	8990	8768	8471	9350	8738	8824	9025	8856	8805	8350	7871	8391	7614	8089	8647	8730
49	7826	8458	8196	7669	8800	7916	8236	8468	7962	8290	7797	7120	7901	6968	7554	8121	7826
50	7034	7963	7687	6958	8291	7229	7699	7943	7119	7844	7260	6538	7457	6397	7001	7652	7034
51	6322	7511	7167	6373	7814	6593	7193	7484	6436	7402	6763	5990	7036	5869	6501	7200	6322
52	5761	7100	6665	5831	7372	6036	6657	7025	5834	7004	6239	5501	6610	5430	5983	6804	5761
53	5283	6692	6184	5387	6953	5593	6187	6630	5341	6621	5771	5105	6238	5047	5537	6421	5283
54	4864	6307	5714	4994	6561	5185	5715	6268	4918	6256	5370	4717	5857	4669	5137	6089	4864
55	4471	5951	5329	4613	6168	4793	5294	5904	4521	5913	5012	4367	5519	4323	4773	5757	4471
56	4103	5606	4970	4272	5786	4446	4935	5564	4153	5577	4692	4028	5184	4010	4468	5456	4103
57	3783	5294	4672	3948	5444	4106	4604	5260	3825	5267	4422	3729	4913	3711	4187	5157	3783
58	3519	4998	4409	3638	5110	3803	4324	4978	3525	4979	4174	3447	4657	3447	3933	4878	3519
59	3206	4739	4165	3356	4834	3509	4064	4714	3247	4720	3950	3176	4428	3179	3713	4628	3206
60	2953	4487	3943	3108	4578	3261	3846	4476	2991	4464	3749	2950	4227	2935	3501	4387	2953
61	2739	4243	3746	2875	4360	3003	3633	4255	2769	4213	3551	2727	4042	2728	3334	4163	2739
62	2545	4012	3541	2667	4146	2780	3468	4039	2562	3982	3400	2537	3868	2551	3179	3949	2545
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65	2114	3421	3084	2187	3635	2272	3002	3483	2130	3410	2970	2128	3405	2159	2804	3405	2114
66	2035	3285	2956	2077	3460	2158	2897	3319	2039	3273	2863	2048	3208	2084	2717	3264	2035
67	1986	3163	2857	2003	3291	2070	2795	3189	1989	3142	2763	1994	3020	2033	2636	3135	1986
68	1970	3040	2752	1952	3099	2007	2705	3068	1971	3008	2671	1971	2816	2007	2562	3003	1970
69	1973	2918	2653	1931	2899	1971	2624	2953	1973	2874	2585	1974	2620	2001	2488	2882	1973
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75	1753	2057	1946	1830	1701	1860	1995	2132	1754	2004	1894	1811	1501	1783	1846	2012	1753
76	1690	1923	1809	1757	1560	1779	1866	1978	1700	1872	1765	1712	1369	1686	1733	1853	1690
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83	879	1058	902	805	952	860	940	1079	889	1032	850	719	815	685	785	968	879
84	797	912	786	679	864	729	821	944	800	877	717	590	650	559	662	817	797
85	697	738	660	562	734	597	698	788	703	706	568	457	473	410	530	639	697
86	585	545	526	427	560	452	545	613	587	513	400	311	298	265	377	456	585
87	456	372	369	284	363	302	380	430	457	336	234	197	186	162	221	294	456
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126	72	69	68	76	50	56	55	55	57	58	56	63	68	70	69	70	72
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141	100	97	95	106	79	82	81	84	84	81	81	91	98	99	99	97	100
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143	101	101	100	110	82	85	86	87	85	87	85	92	99	103	100	101	101
144	105	103	100	110	84	87	87	88	89	87	87	94	101	104	103	104	105

145	106	104	103	110	86	88	90	91	89	90	89	98	102	106	105	108	106
146	106	102	103	113	88	91	90	90	90	92	90	96	104	106	106	106	106
147	110	109	103	114	91	92	93	94	94	96	89	101	106	110	110	109	110
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155	121	124	120	127	107	111	111	113	110	112	110	116	119	122	120	125	121
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162	134	134	134	139	120	127	125	128	127	128	123	129	133	133	137	137	134
163	134	135	131	141	125	128	127	129	127	128	123	133	133	134	135	137	134
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166	142	140	141	146	133	133	134	136	132	136	131	139	137	138	139	143	142
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179	149	147	148	154	147	149	147	148	147	146	145	154	149	147	150	149	149
180	146	147	146	153	146	149	149	149	149	149	144	153	149	147	149	149	146

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[ISSUEDATE] 2022/8/2 20:51 j  
[MANUFAC]  
[LUMCAT]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[\_VOLTAGE] 121.0 V  
[\_CURRENT] 2.670 A  
[\_POWERFACTOR] 1.000  
[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.