

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** ITL61362

**Manufacturer:** YJBLED

**Luminaire:** EXTRUDED DIFFUSE METAL FRAME WITH CAST SEMI-DIFFUSE METAL CORNERS, FORMED PERFORATED METAL TOP CAGE, TWELVE CAST METAL HEAT SINKS, EACH HEAT SINK HAS TEN LED MODULES, EACH LED MODULE CONTAINS: CAST FINNED METAL BODY, ONE CIRCUIT BOARD WITH ONE LED, CLEAR SEMI-HEMISPHERICAL PLASTIC LENS WITH RECESSED BOTTOM AND CYLINDRICAL SIDES.

**Luminaire Cat:** 200120WL

**Lamp:** ONE HUNDRED TWENTY 1-WATT WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

**Lamp Output:** 1 lamp(s), rated lamp lumens: 9942

**Max Candela:** 4,043.0 at Horizontal: 15, Vertical: 50

**Input Wattage:** 113

**Luminous Opening:** Rectangle (L: 1.61ft, W: 1.14ft)

**Test:** ITL61362

**Test Lab:** INDEPENDENT TESTING LABORATORIES, INC.

**Photometry :** Type C

**CIE Class:** Direct

**Cutoff Class:** Full Cutoff

**Nema Type:** 6 X 7

### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.3%	9,677.4	123.5	141.7
Beam (50%):	71.4%	7,097.8	79.5	37.9
Total:	100.4%	9,984.6		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,546.1	15.6%	15.5%
0-40	3,242.4	32.6%	32.6%
0-60	8,776.4	88.3%	88.3%
60-90	1,166.4	11.7%	11.7%
0-90	9,942.8	100%	100%
90-180	0	0%	0%
0-180	9,942.8	100%	100%
Total Efficiency: 100%			

### Lumens Per Zone

Zone	Lumens	% Total Zone	Zone	Lumens	% Total
0-10	156.3	1.6%	90-100	0	0%
10-20	475.5	4.8%	100-110	0	0%
20-30	914.3	9.2%	110-120	0	0%
30-40	1,696.4	17.1%	120-130	0	0%
40-50	2,842.2	28.6%	130-140	0	0%
50-60	2,691.7	27.1%	140-150	0	0%
60-70	812.1	8.2%	150-160	0	0%
70-80	287.8	2.9%	160-170	0	0%

80-90 66.4 0.7% 170-180 0 0%

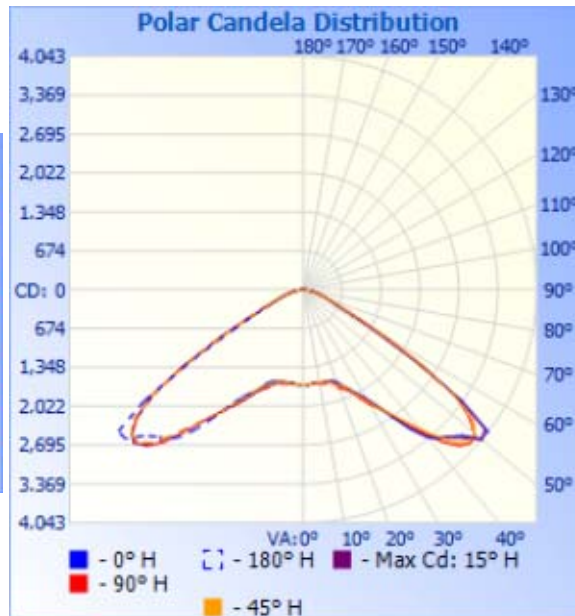
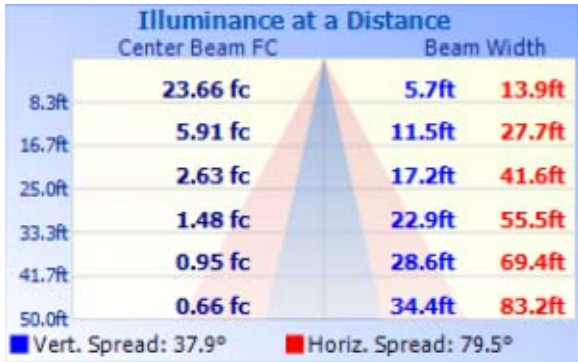
**Roadway Summary**

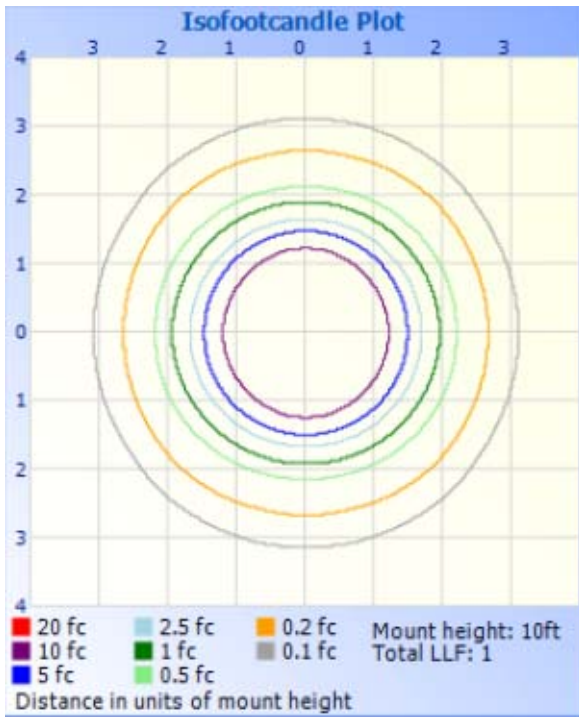
Cutoff Classification: FULL CUTOFF  
 Distribution: TYPE II, VERY SHORT  
 Max Cd, 90 Deg Vert: 0  
 Max Cd, 80 to <90 Deg: 177.0  
 L umens % Lamp  
 Downward Street Side: 4,971.2 50%  
 Downward House Side: 4,971.2 50%  
 Downward Total: 9,942.4 100%  
 Upward Street Side: 0 0%  
 Upward House Side: 0 0%  
 Upward Total: 0 0%  
 Total Lumens: 9,942.4 100%

**Coefficients Of Utilization - Zonal Cavity Method**

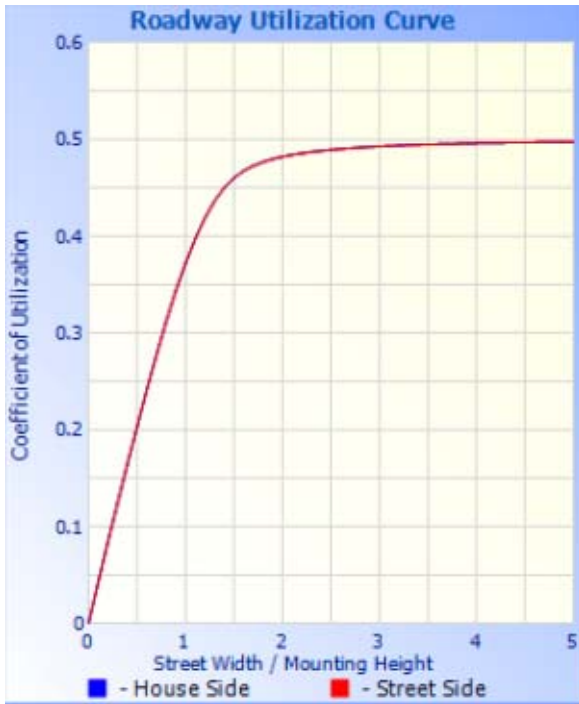
Effective Floor Cavity Reflectance: 20%

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	1.00	1.11	1.11	1.11	1.00	1.06	1.06	1.06	1.00	1.02	1.02	1.02	1.00	1.00	1.00	1.00	1.00
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.93	.85	.95	.92	.90	.85	.91	.89	.87	.85	.85	.85	.85	.85
2	.99	.91	.84	.79	.97	.89	.83	.72	.86	.81	.76	.71	.82	.78	.74	.71	.79	.76	.73	.71	.71	.71	.71	.71
3	.90	.79	.71	.64	.87	.78	.70	.60	.75	.68	.63	.58	.72	.66	.62	.58	.69	.65	.60	.58	.58	.58	.58	.58
4	.81	.69	.60	.53	.79	.68	.59	.50	.65	.58	.52	.48	.63	.56	.51	.48	.61	.55	.51	.48	.48	.48	.48	.48
5	.74	.61	.51	.44	.72	.59	.51	.42	.57	.49	.43	.40	.55	.48	.43	.40	.53	.47	.43	.40	.40	.40	.40	.40
6	.67	.53	.44	.37	.65	.52	.44	.36	.51	.43	.37	.34	.49	.42	.36	.34	.47	.41	.36	.34	.34	.34	.34	.34
7	.62	.48	.38	.32	.60	.47	.38	.31	.45	.37	.31	.29	.44	.36	.31	.29	.42	.36	.31	.29	.29	.29	.29	.29
8	.57	.43	.34	.27	.55	.42	.33	.27	.40	.33	.27	.25	.39	.32	.27	.25	.38	.31	.27	.25	.25	.25	.25	.25
9	.53	.38	.30	.24	.51	.38	.29	.23	.37	.29	.23	.21	.35	.28	.23	.21	.34	.28	.23	.21	.21	.21	.21	.21
10	.49	.35	.26	.21	.47	.34	.26	.20	.33	.26	.21	.19	.32	.25	.20	.19	.31	.25	.20	.19	.19	.19	.19	.19





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## Candela Table - Type C

	0	5	15	25	35	45	55	65	75	85	90	95	105	115	125	135	145	155	165	175	180	
0	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643	1643
2.5	1663	1646	1648	1638	1645	1638	1643	1645	1648	1649	1647	1649	1648	1645	1643	1638	1645	1638	1648	1646	1663	1663
5	1646	1641	1643	1644	1638	1647	1633	1641	1644	1638	1640	1638	1644	1641	1633	1647	1638	1644	1643	1641	1646	1646
7.5	1621	1630	1630	1644	1629	1640	1629	1638	1644	1633	1632	1633	1644	1638	1629	1640	1629	1644	1630	1630	1621	1621
10	1640	1623	1630	1630	1633	1640	1639	1625	1625	1640	1648	1640	1625	1625	1639	1640	1633	1630	1630	1623	1640	1640
12.5	1636	1631	1644	1624	1647	1635	1653	1646	1638	1662	1670	1662	1638	1646	1653	1635	1647	1624	1644	1631	1636	1636
15	1651	1653	1660	1651	1643	1645	1659	1662	1671	1669	1667	1669	1671	1662	1659	1645	1643	1651	1660	1653	1651	1651
17.5	1661	1679	1672	1680	1681	1695	1686	1699	1720	1695	1696	1695	1720	1699	1686	1695	1681	1680	1672	1679	1661	1661
20	1704	1740	1737	1743	1751	1759	1759	1784	1776	1773	1809	1773	1776	1784	1759	1759	1751	1743	1737	1740	1704	1704
22.5	1812	1796	1811	1827	1831	1820	1854	1860	1849	1871	1867	1871	1849	1860	1854	1820	1831	1827	1811	1796	1812	1812
25	1944	1902	1903	1936	1917	1933	1959	1946	1978	1987	1946	1987	1978	1946	1959	1933	1917	1936	1903	1902	1944	1944
27.5	2037	2034	2049	2067	2029	2074	2082	2077	2124	2112	2121	2112	2124	2077	2082	2074	2029	2067	2049	2034	2037	2037
30	2177	2202	2204	2199	2205	2235	2229	2248	2264	2264	2288	2264	2264	2248	2229	2235	2205	2199	2204	2202	2177	2177
32.5	2390	2420	2398	2380	2416	2421	2426	2441	2451	2453	2441	2453	2451	2441	2426	2421	2416	2380	2398	2420	2390	2390
35	2708	2677	2662	2671	2647	2634	2635	2638	2642	2662	2641	2662	2642	2638	2635	2634	2647	2671	2662	2677	2708	2708
37.5	3043	3004	2997	2970	2910	2878	2881	2870	2879	2887	2896	2887	2879	2870	2881	2878	2910	2970	2997	3004	3043	3043
40	3335	3313	3315	3272	3201	3159	3161	3164	3150	3179	3226	3179	3150	3164	3161	3159	3201	3272	3315	3313	3335	3335
42.5	3509	3528	3473	3475	3479	3466	3481	3479	3482	3522	3587	3522	3482	3479	3481	3466	3479	3475	3473	3528	3509	3509
45	3603	3636	3614	3618	3684	3745	3747	3768	3792	3789	3828	3789	3792	3768	3747	3745	3684	3618	3614	3636	3603	3603
47.5	3746	3744	3803	3816	3808	3886	3891	3934	3971	3928	3939	3928	3971	3934	3891	3886	3808	3816	3803	3744	3746	3746
50	4020	3993	4043	3980	3916	3879	3864	3892	3865	3924	3878	3924	3865	3892	3864	3879	3916	3980	4043	3993	4020	4020
52.5	4034	4006	3961	3869	3828	3710	3672	3602	3626	3649	3623	3649	3626	3602	3672	3710	3828	3869	3961	4006	4034	4034
55	3359	3342	3266	3277	3239	3191	3176	3131	3152	3131	3223	3131	3152	3131	3176	3191	3239	3277	3266	3342	3359	3359
57.5	2297	2278	2284	2346	2346	2368	2404	2437	2429	2418	2459	2418	2429	2437	2404	2368	2346	2346	2284	2278	2297	2297
60	1450	1449	1490	1515	1545	1577	1596	1657	1665	1693	1685	1693	1665	1657	1596	1577	1545	1515	1490	1449	1450	1450
62.5	973	972	995	998	1021	1037	1042	1078	1089	1108	1096	1108	1089	1078	1042	1037	1021	998	995	972	973	973
65	649	654	659	674	696	707	726	737	751	741	737	741	751	737	726	707	696	674	659	654	649	649
67.5	530	535	527	548	559	564	583	573	555	547	553	547	555	573	583	564	559	548	527	535	530	530
70	436	435	432	442	447	452	436	428	428	428	422	428	428	428	436	452	447	442	432	435	436	436
72.5	344	348	352	347	347	347	326	329	330	330	327	330	330	329	326	347	347	347	352	348	344	344
75	273	270	267	261	272	253	255	258	259	258	260	258	259	258	255	253	272	261	267	270	273	273
77.5	228	224	216	205	188	192	199	191	185	183	182	183	185	191	199	192	188	205	216	224	228	228
80	177	175	171	160	146	144	141	141	144	140	135	140	144	141	141	144	146	160	171	175	177	177
82.5	115	132	135	113	104	105	101	102	102	46	34	46	102	102	101	105	104	113	135	132	115	115
85	26	34	83	71	59	50	61	62	58	19	18	19	58	62	61	50	59	71	83	34	26	26
87.5	8	9	25	13	11	8	9	7	5	4	4	4	5	7	9	8	11	13	25	9	8	8
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Luminaire Report Summary

IESNA:LM-63-2002

[TEST]ITL61362

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]11/25/08

[MANUFAC]YJBLED

[LUMCAT]200120WL

[LUMINAIRE]EXTRUDED DIFFUSE METAL FRAME WITH CAST SEMI-DIFFUSE METAL

[MORE]CORNERS, FORMED PERFORATED METAL TOP CAGE, TWELVE CAST METAL

[MORE]HEAT SINKS, EACH HEAT SINK HAS TEN LED MODULES, EACH LED

[MORE]MODULE CONTAINS: CAST FINNED METAL BODY, ONE CIRCUIT BOARD

[MORE]WITH ONE LED, CLEAR SEMI-HEMISPHERICAL PLASTIC LENS WITH

[MORE]RECESSED BOTTOM AND CYLINDRICAL SIDES.

[LAMP]ONE HUNDRED TWENTY 1-WATT WHITE MULTI-CHIP LIGHT EMITTING  
[MORE]DIODES (LEDS) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS,  
[MORE]VERTICAL BASE-UP POSITION.  
[OTHER]TOTAL INPUT WATTS = 113.0 AT 120.0 VOLTS  
[OTHER]TEST DISTANCE = 25.25 FEET  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[\_LEDDRIVER]YJBLED C0900 AP 150 LED SY  
[\_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT  
[MORE]VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER. LED DRIVER  
[MORE]INFORMATION PROVIDED BY CLIENT.  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 21  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: STANDARD  
FILE: BALLAST FACTOR: 1

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