

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** ITL60486

**Manufacturer:** YJBLED.COM

**Luminaire:** EXTRUDED FINNED METAL HOUSING WITH CAST FINNED METAL END PIECES, SIX CIRCUIT BOARDS EACH WITH 16 LEDS, FORMED METAL TOP AND SIDE REFLECTORS WITH PREMIUM SPECULAR FINISH, CLEAR FLAT GLASS LENS IN FABRICATED METAL LENS FRAME. INTERIOR OF LENS HAS BLACK PAINTED OUTER PERIMETER.

**Luminaire Cat:** 10096WL

**Lamp:** NINETY-SIX 1-WATT MULTI-CHIP LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

**Lamp Output:** 1 lamp(s), rated lamp lumens: 5681

**Max Candela:** 3,648.0 at Horizontal: 90, Vertical: 2.5

**Input Wattage:** 108.9

**Luminous Opening:** Rectangle (L: 1.33ft, W: 1.07ft)

**Test:** ITL60486

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

**Photometry :** Type C

**CIE Class:** Direct

**Cutoff Class:** Full Cutoff

**Nema Type:** 7 X 6

### Flood Summary

Efficiency Lumens Horizontal Spread Vertical Spread

Field (10%):	97.5%	5,537.8	144.7	104.3
Beam (50%):	59%	3,349.4	93.7	60.4
Total:	100.3%	5,698.2		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	2,435.2	42.9%	42.9%
0-40	3,694.5	65%	65.1%
0-60	5,361.1	94.4%	94.5%
60-90	313.9	5.5%	5.5%
0-90	5,675.1	99.9%	100%
90-180	0	0%	0%
0-180	5,675.1	99.9%	100%

Total Efficiency: 99.9%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	338.7	6.0%	90-100	0	0%
10-20	910.8	16.0%	100-110	0	0%
20-30	1,185.7	20.9%	110-120	0	0%
30-40	1,259.3	22.2%	120-130	0	0%
40-50	1,081.1	19.0%	130-140	0	0%
50-60	585.5	10.3%	140-150	0	0%
60-70	242.3	4.3%	150-160	0	0%
70-80	64.9	1.1%	160-170	0	0%
80-90	6.7	0.1%	170-180	0	0%

### Roadway Summary

**Cutoff Classification:** FULL CUTOFF

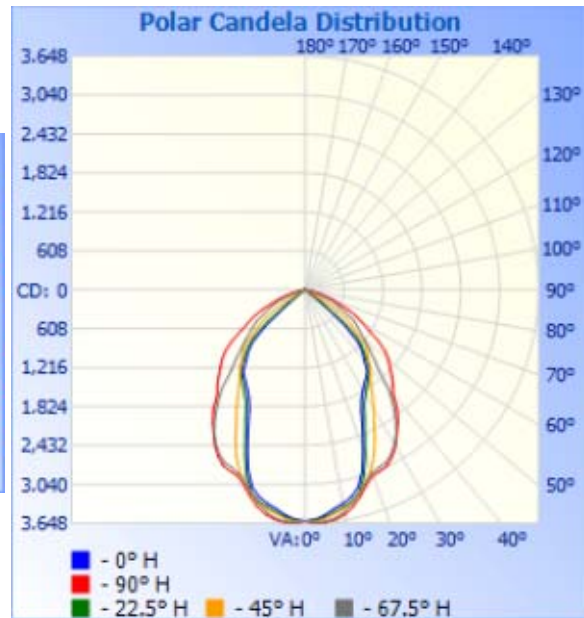
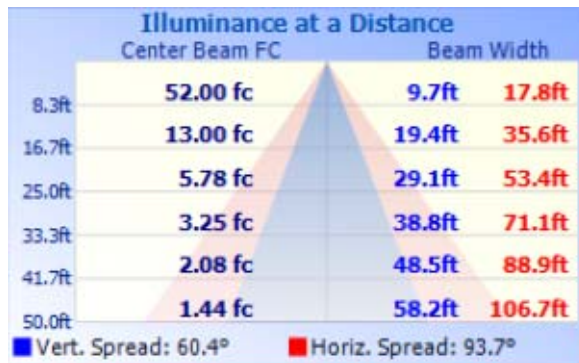
**Distribution:** TYPE I, VERY SHORT

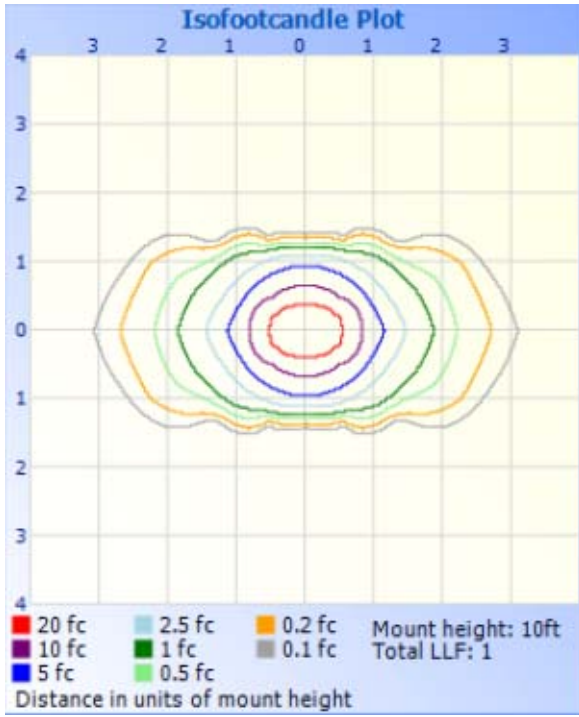
Max Cd, 90 Deg Vert: 0  
 Max Cd, 80 to <90 Deg: 37.0  
 L umens % Lamp  
 Downward Street Side: 2,839.5 50%  
 Downward House Side: 2,839.5 50%  
 Downward Total: 5,679.0 100%  
 Upward Street Side: 0 0%  
 Upward House Side: 0 0%  
 Upward Total: 0 0%  
 Total Lumens: 5,679.0 100%

**Coefficients Of Utilization - Zonal Cavity Method**

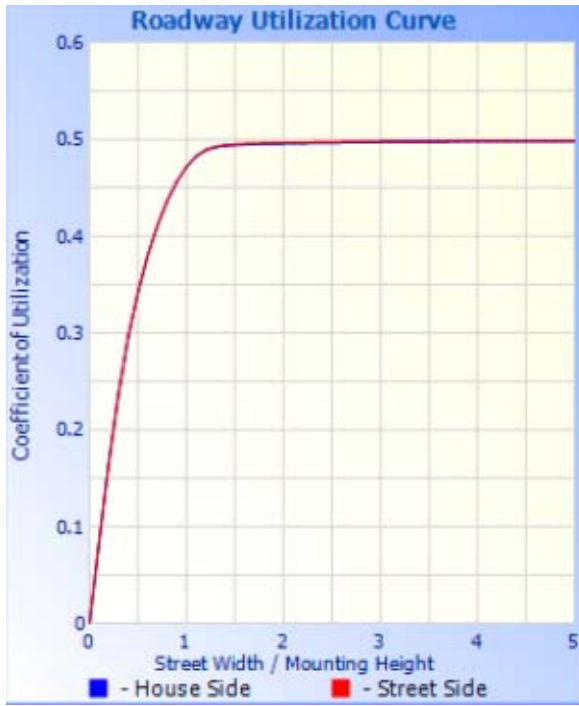
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	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	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.08	1.05	1.02	1.09	1.06	1.03	.90	1.02	.99	.97	.98	.96	.94	.94	.93	.92	.90
2	1.04	.98	.92	.88	1.02	.96	.91	.81	.92	.88	.85	.89	.86	.83	.86	.84	.81	.80
3	.97	.88	.82	.77	.94	.87	.81	.72	.84	.79	.75	.81	.77	.74	.79	.75	.72	.71
4	.90	.80	.73	.68	.88	.79	.72	.64	.77	.71	.66	.74	.69	.65	.72	.68	.65	.63
5	.84	.73	.66	.60	.82	.72	.65	.58	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56
6	.78	.67	.59	.54	.76	.66	.59	.52	.64	.58	.53	.63	.57	.53	.61	.56	.52	.51
7	.73	.62	.54	.49	.72	.61	.54	.48	.59	.53	.48	.58	.52	.48	.57	.52	.48	.46
8	.69	.57	.49	.44	.67	.56	.49	.43	.55	.49	.44	.54	.48	.44	.53	.47	.44	.42
9	.64	.53	.45	.41	.63	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.38
10	.61	.49	.42	.37	.60	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.37	.35





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## Candela Table - Type C

	0	22.5	45	67.5	90
0	3611	3611	3611	3611	3611
2.5	3592	3606	3623	3637	3648
5	3530	3558	3590	3643	3643
7.5	3449	3500	3522	3594	3618
10	3392	3439	3466	3517	3562
12.5	3315	3379	3410	3406	3467
15	3197	3271	3300	3282	3336
17.5	2967	3052	3144	3149	3192
20	2644	2750	3006	3048	3089
22.5	2333	2442	2810	3003	3065
25	2071	2205	2577	2974	3030
27.5	1907	1998	2331	2901	2941
30	1806	1891	2142	2791	2818
32.5	1728	1799	1963	2648	2665
35	1662	1714	1789	2462	2521
37.5	1595	1636	1685	2255	2362
40	1435	1559	1574	2025	2137
42.5	1334	1383	1456	1710	2031
45	1184	1259	1374	1520	1914
47.5	855	1091	1282	1355	1793
50	424	764	1028	1221	1697
52.5	126	350	905	1088	1573
55	42	92	760	983	1395
57.5	28	34	495	896	1188
60	29	23	187	722	1032
62.5	40	26	35	627	910
65	44	35	13	533	753
67.5	46	35	12	418	573
70	53	36	20	245	469
72.5	46	39	21	97	319
75	32	28	20	28	223
77.5	21	19	18	24	122
80	13	10	12	19	37
82.5	11	8	8	11	17
85	5	4	4	6	8
87.5	1	1	1	1	2
90	0	0	0	0	0

## Luminaire Report Summary

IESNA:LM-63-2002

[TEST]ITL60486

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]06/12/08

[MANUFAC]YJBLED.COM

[LUMCAT]10096WL

[LUMINAIRE]EXTRUDED FINNED METAL HOUSING WITH CAST FINNED METAL END

[MORE]PIECES, SIX CIRCUIT BOARDS EACH WITH 16 LEDS, FORMED METAL

[MORE]TOP AND SIDE REFLECTORS WITH PREMIUM SPECULAR FINISH, CLEAR

[MORE]FLAT GLASS LENS IN FABRICATED METAL LENS FRAME. INTERIOR OF

[MORE]LENS HAS BLACK PAINTED OUTER PERIMETER.

[LAMP]NINETY-SIX 1-WATT MULTI-CHIP LIGHT EMITTING DIODES (LEDS),

[MORE]VERTICAL BASE-UP POSITION.  
[OTHER]TOTAL INPUT WATTS = 108.9 AT 120.0 VOLTS  
[\_LEDDRIVER]TWO MEAN WELL S-150-24  
[\_NOTE]DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT  
[MORE]VOLTAGE (120VAC) TO THE LED DRIVERS. LAMP AND DRIVER  
[MORE]INFORMATION PROVIDED BY CLIENT.  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 5  
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.