



HID to **THE EDGE™** Equivalent Data Assumptions

HID: 70% optical efficiency, standard rated lamp life  
 LED: 85% NanoOptic™ efficiency\*, 95% driver efficiency, 100,000 hour life

HID				LED				
HID Lamp	Photopic Initial Delivered Lumens	Photopic Average Delivered Lumens	System Watts	Number of Light Bars	Photopic Initial Delivered Lumens	Photopic Average Delivered Lumens Over 50,000 hours	System Watts	Energy Savings %
PS 70 (H)	3,500	2,200	90	2	3,400	3,230	55	-39%
PS 100 (H)	5,650	3,550	127	3	5,100	4,885	79	-38%
PS 150 (V)	9,800	7,200	190	5	8,500	8,075	128	-32%
MH 175 (V)	9,800	6,300	210	4	6,800	6,460	104	-51%
MH 250 (H)	13,250	8,300	289	5	8,500	8,075	128	-56%
PS 320 (H)	21,000	15,500	368	10	17,000	16,150	257	-30%
MH 400 (H)	22,700	14,500	455	9	15,300	14,535	232	-49%
PS 400 (H)	28,000	22,000	450	(2x)7	23,800	22,610	366	-19%
HPS 70	4,450	3,900	105	2	3,400	3,230	55	-47%
HPS 100	6,650	6,050	130	4	6,800	6,460	104	-20%
HPS 150	11,150	10,100	188	7	11,900	11,305	183	-3%
HPS 250	21,000	19,000	300	12	20,400	19,380	306	2%
HPS 400	35,000	32,000	460	(2x)10	34,000	32,300	513	12%

Specify by Initial Delivered Lumens

Photopic Light Bar Output & System Watts

Number of Light Bars	Photopic Initial Delivered Lumens	Photopic Average Delivered Lumens	System Watts	Number of Light Bars	Photopic Initial Delivered Lumens	Photopic Average Delivered Lumens	System Watts
Single LED	85	81	1.3	7	11,900	11,305	183
1	1,700	1,615	28	8	13,600	12,920	207
2	3,400	3,230	55	9	15,300	14,535	232
3	5,100	4,845	79	10	17,000	16,150	257
4	6,800	6,460	104	11	18,700	17,765	281
5	8,500	8,075	128	12	20,400	19,380	306
6	10,200	9,690	153				

\* Representative optical efficiency. For exact photometric performance data consult product specification sheet and/or IES photometric file.





HID to **THE EDGE™** Equivalent Data Assumptions

HID: 70% optical efficiency, standard rated lamp life  
 LED: 85% NanoOptic™ efficiency\*, 95% driver efficiency, 100,000 hour life

Scotopic/Photopic lumen adjustment multipliers\*\*  
 MH/PS x 1.49; HPS x .62; 6000K LED x 1.96

HID				LED				
HID Lamp	Scotopic Initial Delivered Lumens	Scotopic Average Delivered Lumens**	System Watts	Number of Light Bars	Scotopic Initial Delivered Lumens	Scotopic Average Delivered Lumens** Over 50,000 hours	System Watts	Energy Savings %
PS 70 (H)	5,215	3,278	90	1	3,332	3,165	28	-69%
PS 100 (H)	8,419	5,290	127	2	6,664	6,331	55	-57%
PS 150 (V)	14,602	10,728	190	4	13,328	12,662	104	-45%
MH 175 (V)	14,602	9,387	210	3	9,996	9,496	79	-62%
MH 250 (H)	19,743	12,367	289	4	13,328	12,662	104	-64%
PS 320 (H)	31,290	23,095	368	8	26,656	25,323	207	-44%
MH 400 (H)	33,823	21,605	455	7	23,324	22,158	183	-60%
PS 400 (H)	41,720	32,780	450	10	33,320	31,654	257	-43%
HPS 70	2,759	2,418	105	1	3,332	3,165	28	-74%
HPS 100	4,123	3,751	130	1	3,332	3,165	28	-79%
HPS 150	6,913	6,262	188	2	6,664	6,331	55	-71%
HPS 250	13,020	11,780	300	4	13,328	12,662	104	-65%
HPS 400	21,700	19,840	460	6	19,992	18,992	153	-67%

Specify by Initial Delivered Lumens

Scotopic Light Bar Output & System Watts

Number of Light Bars	Scotopic Initial Delivered Lumens	Scotopic Average Delivered Lumens**	System Watts	Number of Light Bars	Scotopic Initial Delivered Lumens	Scotopic Average Delivered Lumens**	System Watts
Single LED	167	158	1.3	7	23,324	22,158	183
1	3,332	3,165	28	8	26,656	25,323	207
2	6,664	6,331	55	9	29,988	28,489	232
3	9,996	9,496	79	10	33,320	31,654	257
4	13,328	12,662	104	11	36,652	34,819	281
5	16,660	15,827	128	12	39,984	37,985	306
6	19,992	18,992	153				

\* Representative optical efficiency. For exact photometric performance data consult product specification sheet and/or IES photometric file.

\*\* "Energy Efficiency Consequences of Scotopic Sensitivity" S.M. Berman, Journal of the IES, Vol 21, No. 1, Dec. 1992.

