

1000W MH vs 400W LED
 Sixteen 1000W Metal Halide Fixtures
 Sixteen 400W LED Fixtures
 Each Mounted On 30' Light Towers
 1:1 Comparison MH vs LED

Larson Electronics
 9419 E US HWY 175
 Kemp, TX 75143
 www.LarsonElectronics.com
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Date:9/24/2014

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Luminaire Schedule

Symbol	Qty	Label	Description	Lumens	LLF	Arrangement
	1	4 in a row	GAU-LTL-400W-LED	40000	0.950	4 ROW 10 5
	1	4 Spreader 1028	GAU-LTL-400W-LED	40000	0.950	4 IN A ROW SPREADER 1028
	1	4 Spreader 1030	GAU-LTL-400W-LED	40000	0.950	4 IN A ROW 1030 NEG 5
	1	4 Spreader 530	GAU-LTL-400W-LED	40000	0.950	4 IN A ROW SPREADER 530
	1	SPF_X1M_33 4 in a row	SPF X1M 33	110000	0.830	4 ROW 10 5
	1	SPF 4 spreader 1028	SPF X1M 33	110000	0.830	4 ROW 10 5
	1	SPF 4 spreader 1030	SPF X1M 33	110000	0.830	4 IN A ROW 1030 NEG 5
	1	SPF 4 spreader 530	SPF X1M 33	110000	0.830	4 IN A ROW SPREADER 530

Luminaire Location Summary

SeqNo	Label	X	Y	Z	Orient	Tilt
1	SPF 4 spreader 1030	-150	0	27.5	90	90
2	SPF 4 spreader 1028	-150	0	30	90	90
3	SPF_X1M_33 4 in a row	-150	0	32.5	90	89
4	SPF 4 spreader 530	-150	0	35	90	89
5	4 Spreader 1030	150	0	27.5	90	90
6	4 Spreader 1028	150	0	30	90	90
7	4 in a row	150	0	32.5	90	89
8	4 Spreader 530	150	0	35	90	89

LPD Area Summary

Label	Area	Total Watts	LPD	LPD Units	Perimeter
LPDArea LED	75000	6400	0.085	Watts/Sq.Ft.	1100
LPDArea Metal Halide	75000	17280	0.230	Watts/Sq.Ft.	1100

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	# Pts	Grid Z	Meter Type
CalcPts	Illuminance	Fc	6.41	59.3	0.6	10.68	98.83	300	2.5	Horizontal
CalcPts_1	Illuminance	Fc	3.14	16.3	0.1	31.40	163.00	300	2.5	Horizontal
StatArea LED	Illuminance	Fc	3.14	16.3	0.1	31.40	163.00	300		
StatArea Metal Halide	Illuminance	Fc	6.41	59.3	0.6	10.68	98.83	300		

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Expanded Luminaire Location Summary										
Lum#	Label	X	Y	Z	Orient	Tilt	X-Aimpt	Y-Aimpt	Z-Aimpt	TCF
1	SPF 4 spreader 1030	-151	0	27.5	100	90	-152.736	9.848	27.5	0.98
1	SPF 4 spreader 1030	-149	0	27.5	80	90	-147.264	9.848	27.5	0.98
1	SPF 4 spreader 1030	-153	0	27.5	120	85	-310.163	272.215	0	0.943
1	SPF 4 spreader 1030	-147	0	27.5	60	85	10.163	272.215	0	0.943
2	SPF 4 spreader 1028	-151	0	30	95	90	-151.872	9.962	30	0.98
2	SPF 4 spreader 1028	-149	0	30	85	90	-148.128	9.962	30	0.98
2	SPF 4 spreader 1028	-153	0	30	115	80	-224.904	154.198	0	0.907
2	SPF 4 spreader 1028	-147	0	30	65	80	-75.096	154.198	0	0.907
3	SPF_X1M_33 4 in a row	-151	0	32.5	95	89	-313.277	1854.838	0	0.973
3	SPF_X1M_33 4 in a row	-149	0	32.5	85	89	13.277	1854.838	0	0.973
3	SPF_X1M_33 4 in a row	-153	0	32.5	115	79	-223.661	151.533	0	0.899
3	SPF_X1M_33 4 in a row	-147	0	32.5	65	79	-76.339	151.533	0	0.899
4	SPF 4 spreader 530	-151	0	35	95	84	-180.023	331.736	0	0.936
4	SPF 4 spreader 530	-149	0	35	85	84	-119.977	331.736	0	0.936
4	SPF 4 spreader 530	-153	0	35	120	89	-1155.57	1736.509	0	0.973
4	SPF 4 spreader 530	-147	0	35	60	89	855.574	1736.51	0	0.973
5	4 Spreader 1030	149	0.246	27.5	100	90	147.264	10.094	27.5	1
5	4 Spreader 1030	151	0.246	27.5	80	90	152.736	10.094	27.5	1
5	4 Spreader 1030	147	0.217	27.5	120	85	-10.163	272.432	0	1
5	4 Spreader 1030	153	0.217	27.5	60	85	310.163	272.432	0	1
6	4 Spreader 1028	149	0.246	30	100	85	89.456	337.938	0	1
6	4 Spreader 1028	151	0.246	30	80	85	210.544	337.938	0	1
6	4 Spreader 1028	147	0.221	30	118	90	142.305	9.05	30	1
6	4 Spreader 1028	153	0.221	30	62	90	157.695	9.05	30	1
7	4 in a row	149	0.249	32.5	95	89	-13.277	1855.087	0	1
7	4 in a row	151	0.249	32.5	85	89	313.277	1855.087	0	1
7	4 in a row	147	0.227	32.5	115	79	76.339	151.76	0	1
7	4 in a row	153	0.227	32.5	65	79	223.661	151.76	0	1
8	4 Spreader 530	149	0.249	35	95	84	119.977	331.985	0	1
8	4 Spreader 530	151	0.249	35	85	84	180.023	331.985	0	1
8	4 Spreader 530	147	0.217	35	120	89	-855.574	1736.726	0	1
8	4 Spreader 530	153	0.217	35	60	89	1155.574	1736.727	0	1
Total Quantity: 32										

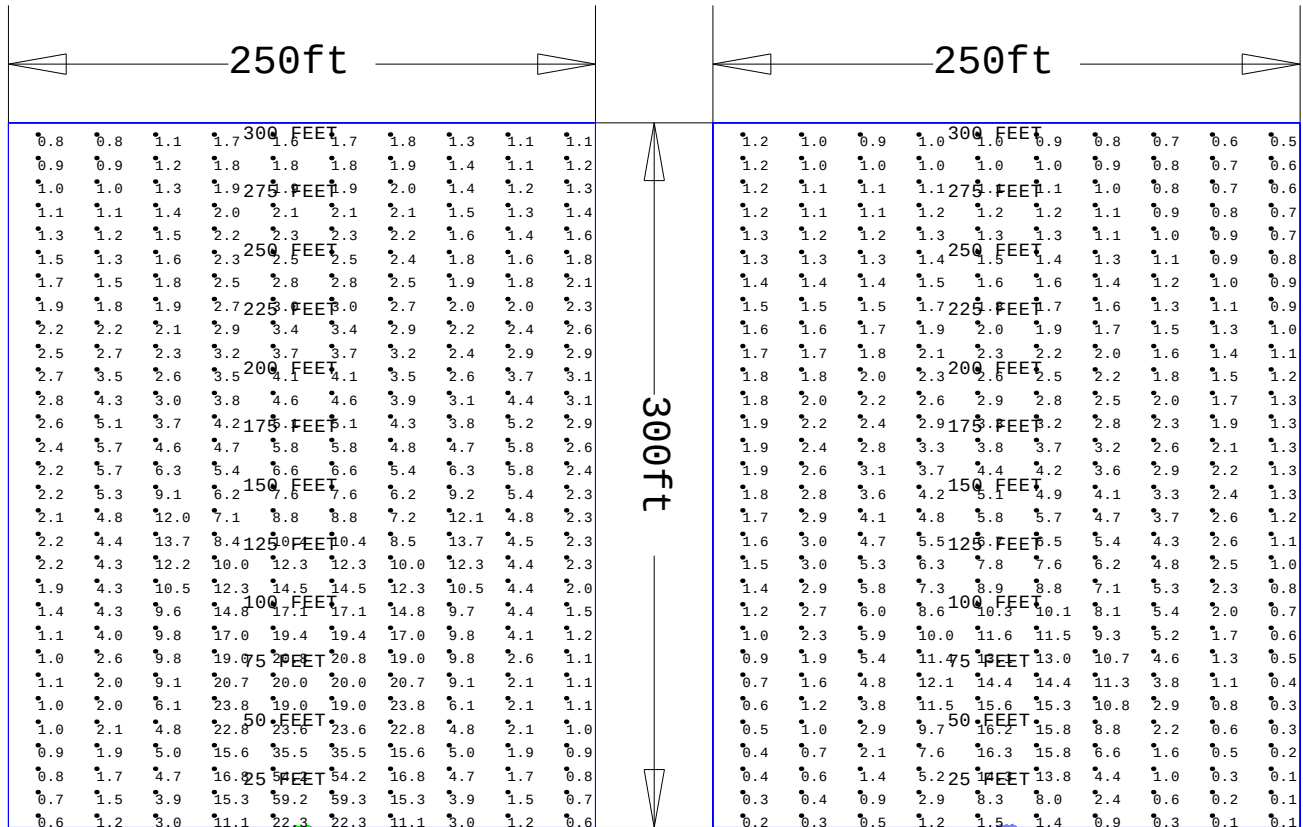
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Metal Halide

LED

StatArea Metal Halide

StatArea LED

Illuminance (Fc)

Illuminance (Fc)

Average = 6.41

Average = 3.14

Maximum = 59.3

Maximum = 16.3

Minimum = 0.6

Minimum = 0.1

Avg/Min Ratio = 10.68

Avg/Min Ratio = 31.40

Max/Min Ratio = 98.83

Max/Min Ratio = 163.00

LPDArea Metal Halide

LPDArea LED

Perimeter = 1100 ft

Perimeter = 1100 ft

Area = 75000 Sq.ft

Area = 75000 Sq.ft

Total Watts = 17280

Total Watts = 6400

Lighting Power Density = 0.230 Watts/Sq.ft

Lighting Power Density = 0.085 Watt

View of point by point

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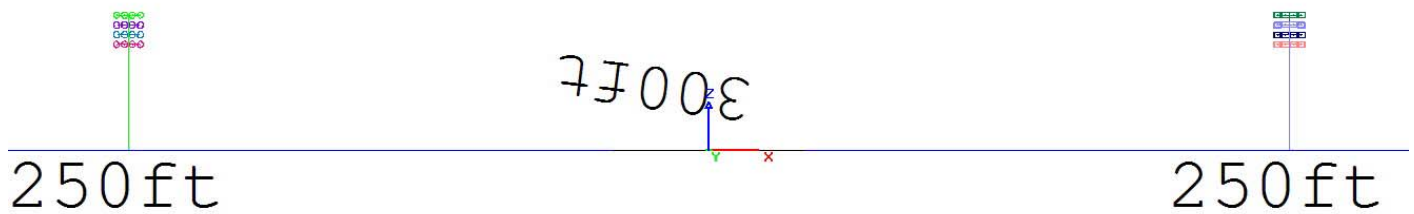


Image File : Tower Arrangement

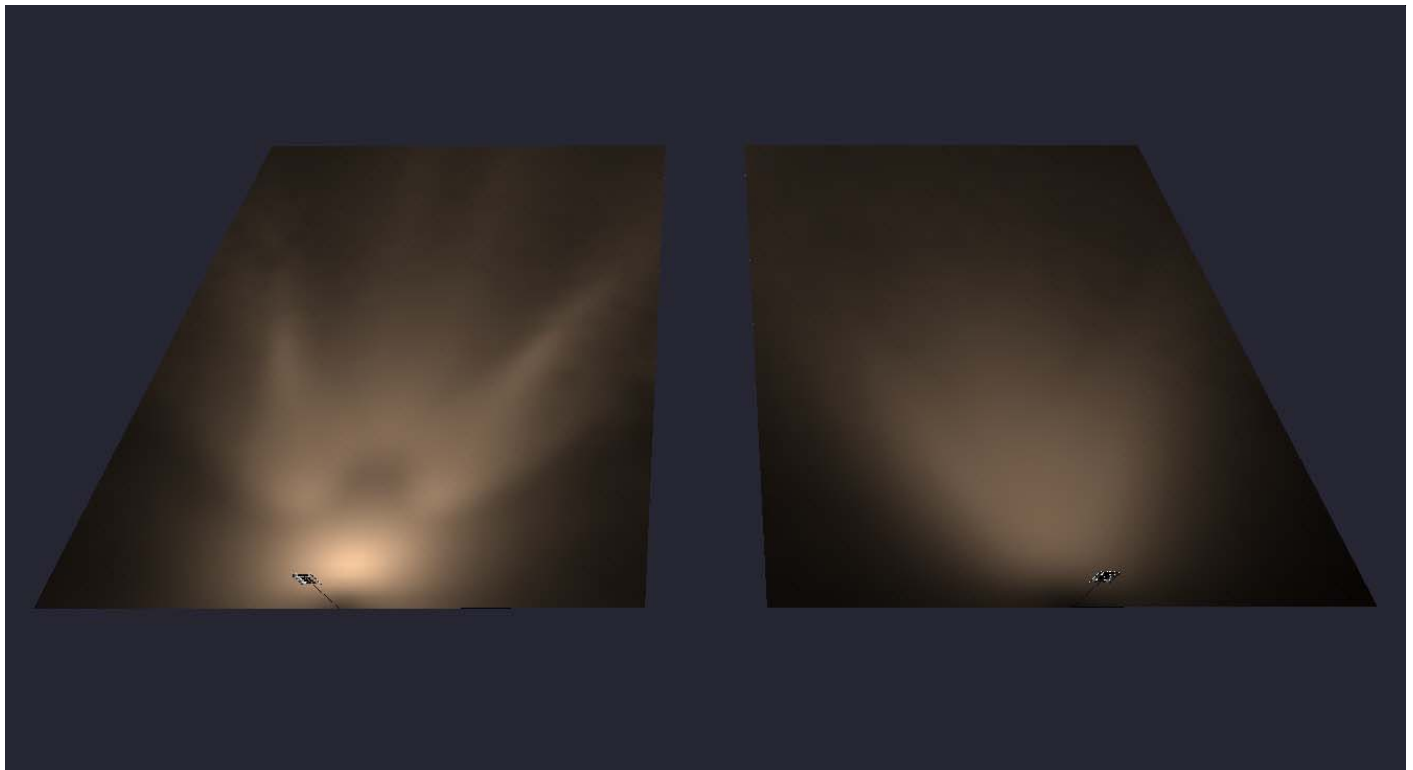
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Render Image - View Name : Birds Eye View



Luminaire Image : SPF_X1M_33 1000W MH



Luminaire Image : GAU-LTL-400W-LED

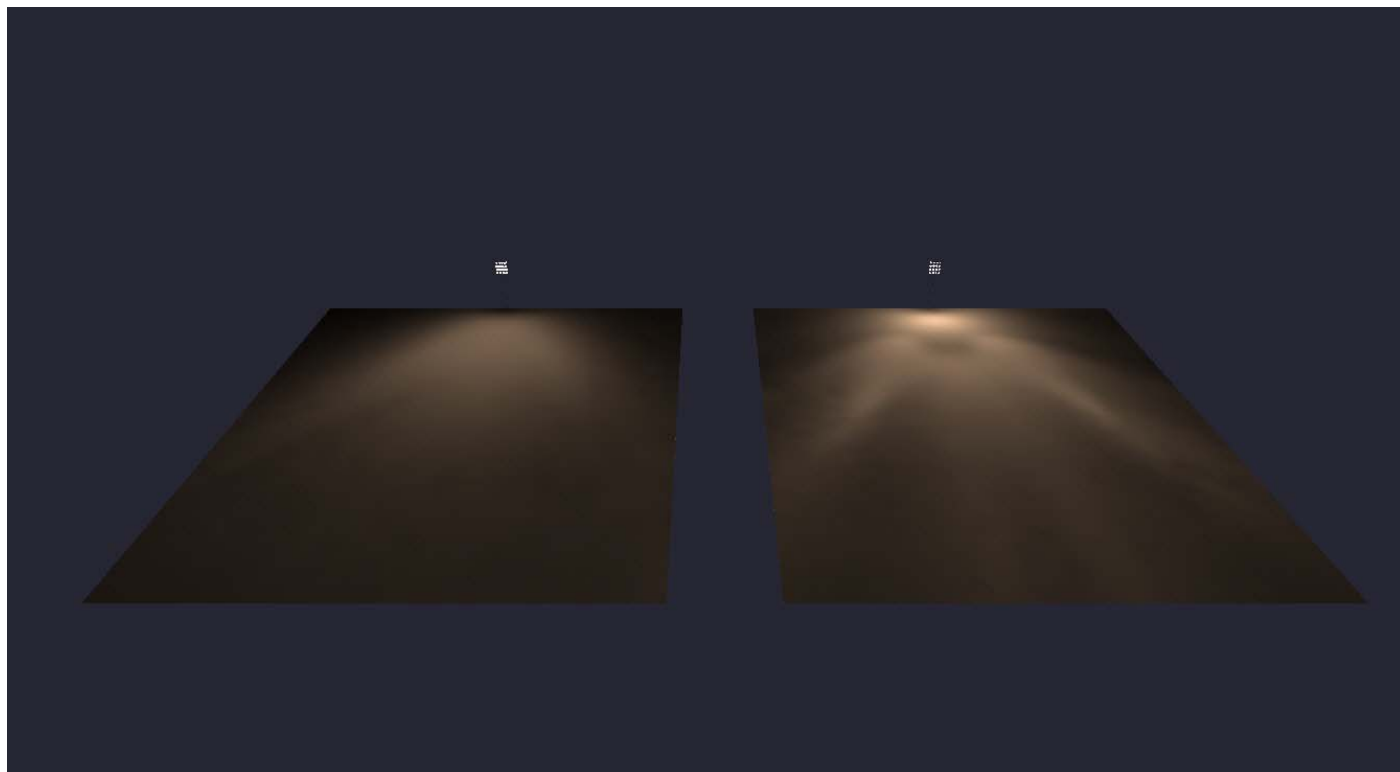
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Render Image - View Name : Birds Eye

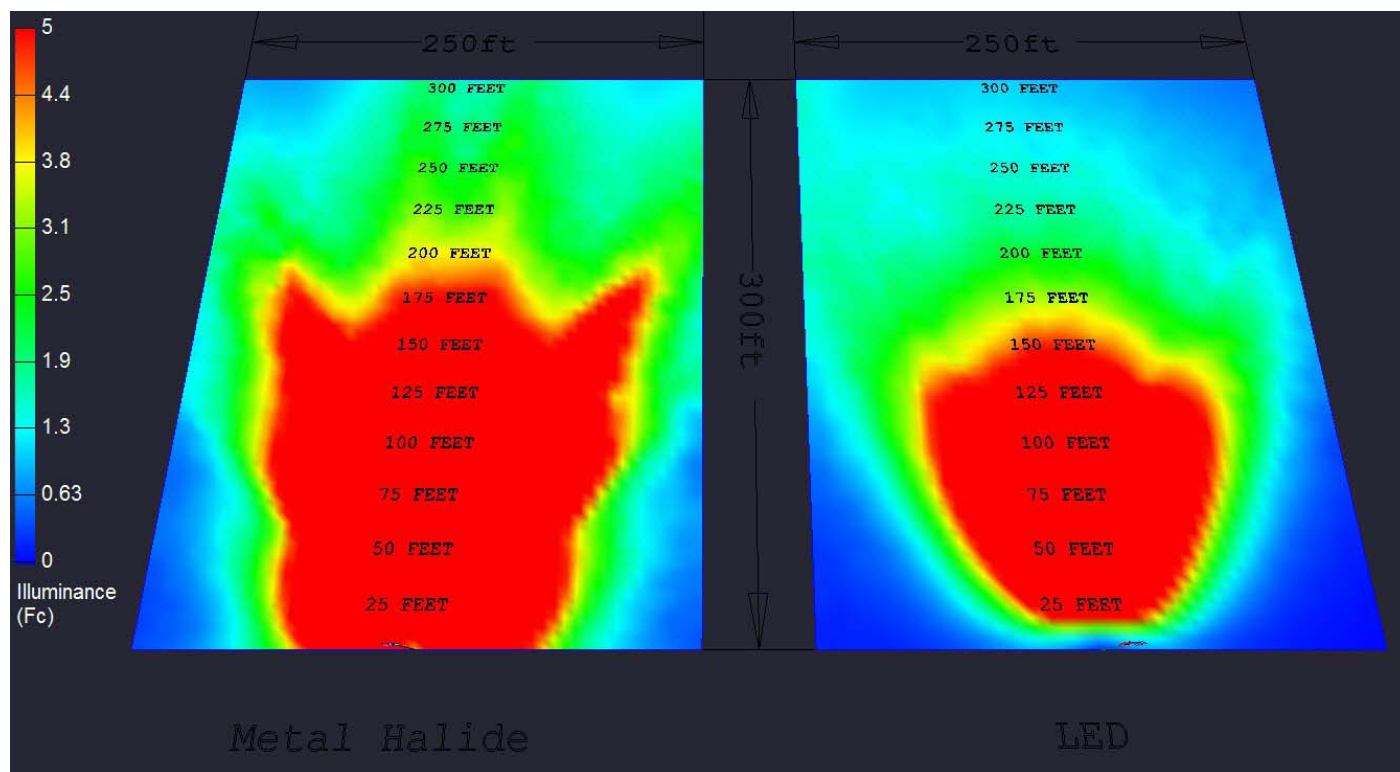
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Render Image - View Name : Birds Eye Pseudo

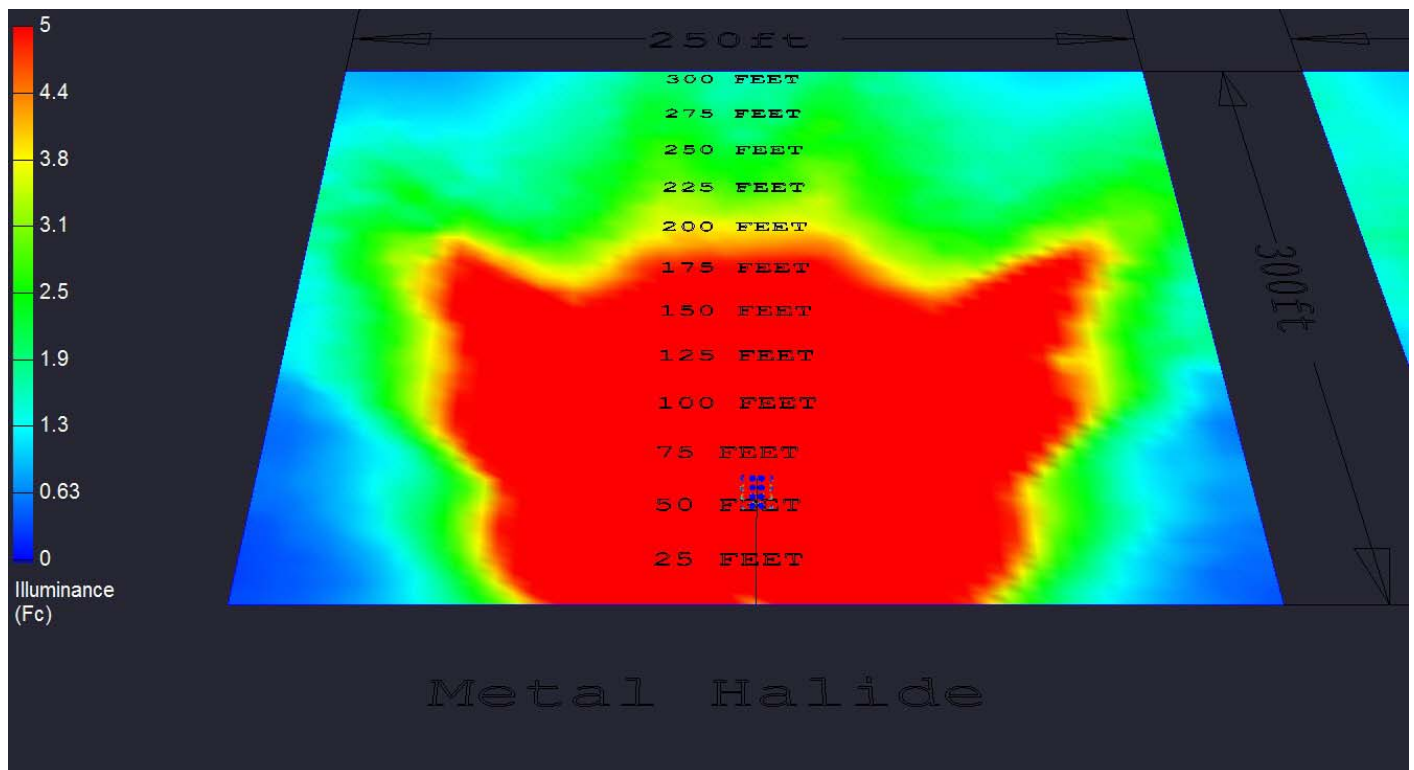
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Render Image - View Name : Metal Halide Pseudo

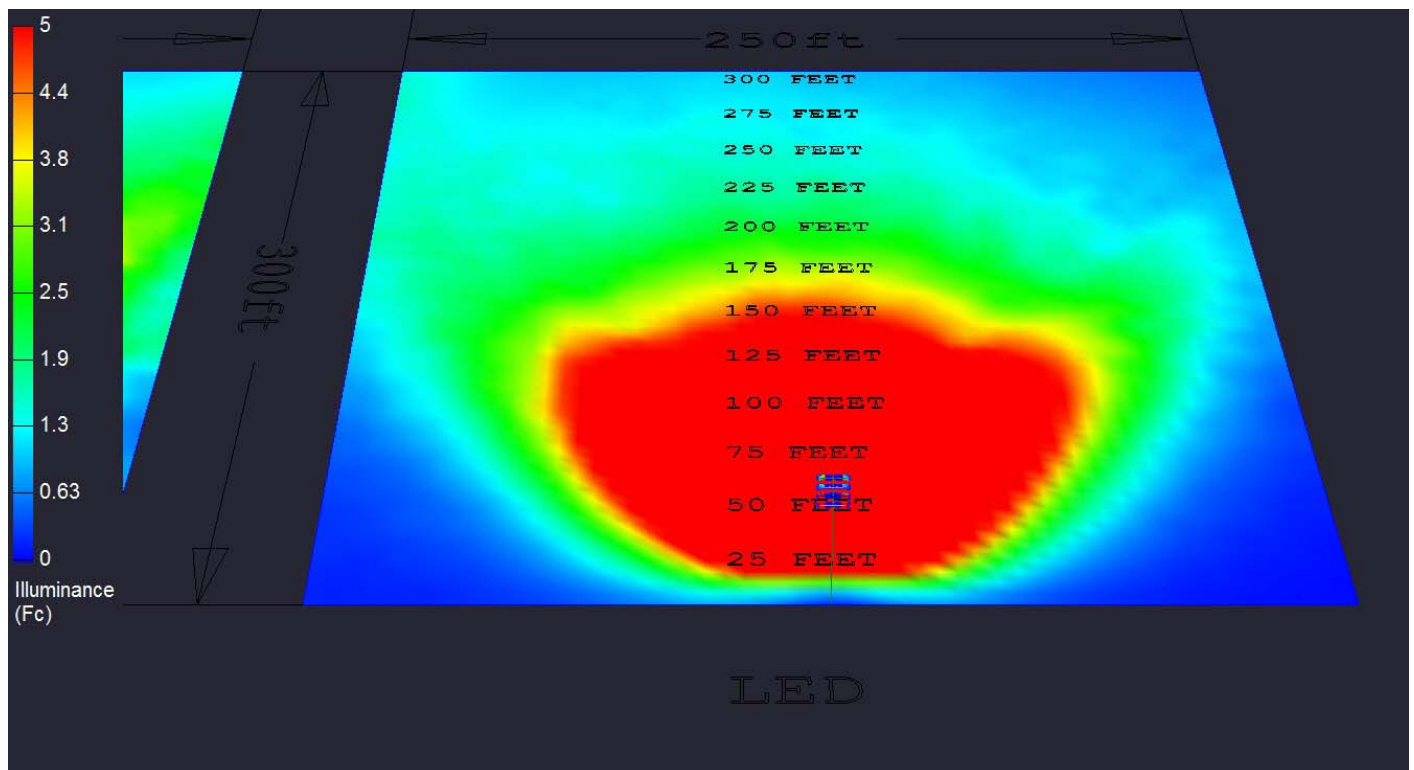
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Render Image - View Name : LED Pseudo

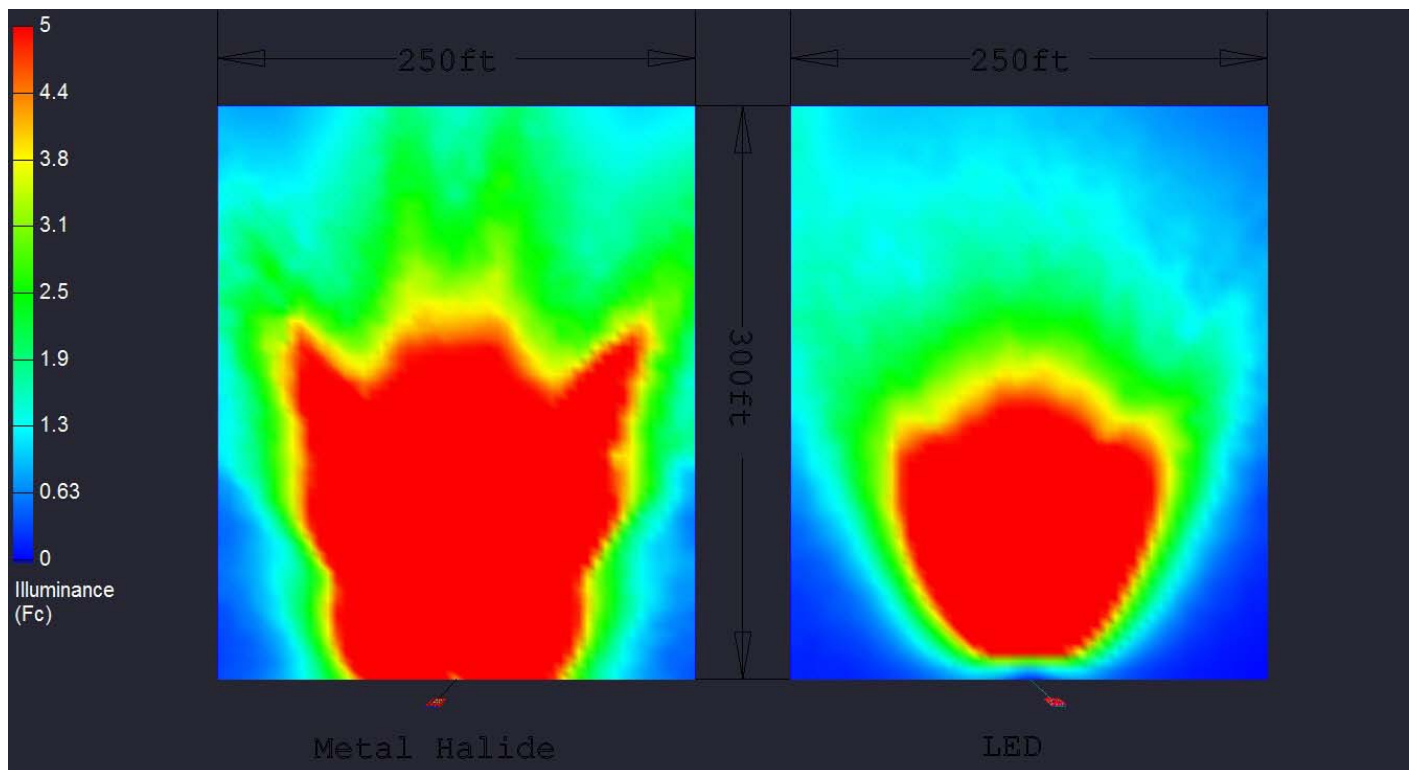
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