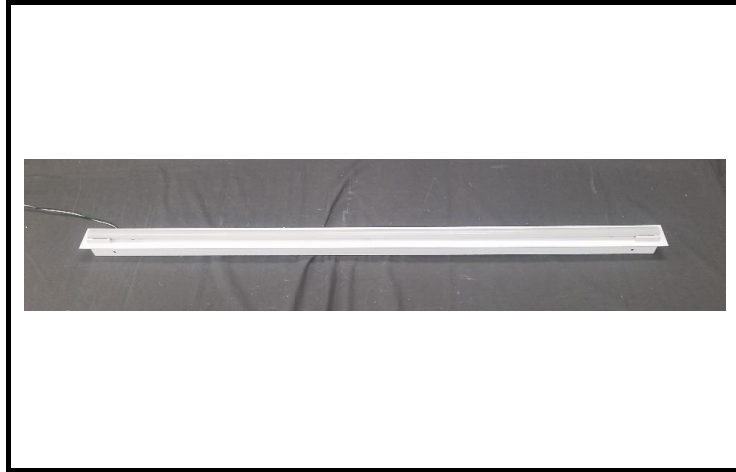




BL6200-50-ND-RE-SN-AW

Luminaire Description: White rectangular metal housing with diffuse plastic lens
Lamp: White LED array
Mounting: Recessed
Ballast/Driver: HEPgroup LCV25W24 UNI

Luminaire



Luminaire Characteristics

Luminous Length: 49.00 in.
Luminous Width: 0.7500 in.
Luminous Height: 1.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 1727 Lumens
Efficacy: 75.21 lm/w
CCT: 3445 K
CRI (Ra): 83.4

Distribution

Total Luminaire Output: 1730 Lumens
Luminaire Efficacy: 75.1 lm/w
Maximum Candela: 429 Candela

Electrical Data at 120 VAC

Test Temperature: 25.5 °C
Voltage: 120.1 VAC
Current: 0.1924 A
Power: 22.96 W
Power Factor: 0.994
Frequency: 60 Hz
Current THD: 7.62 %



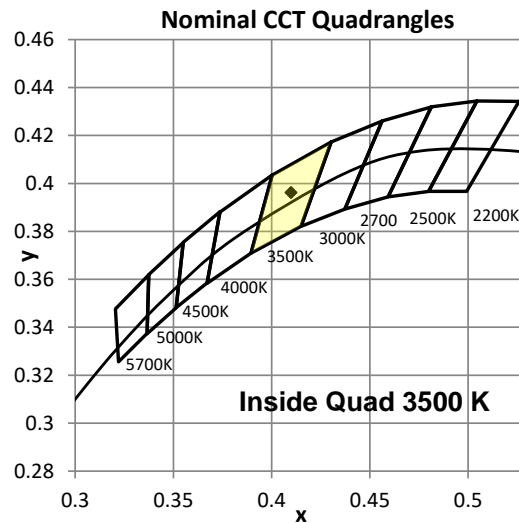
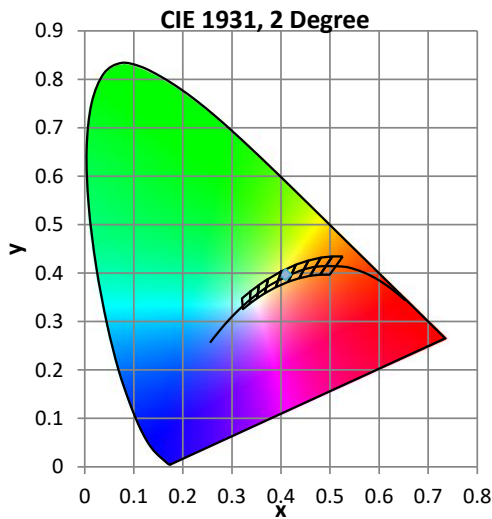
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.1924 A	22.96 W	0.994	60 Hz	7.62 %

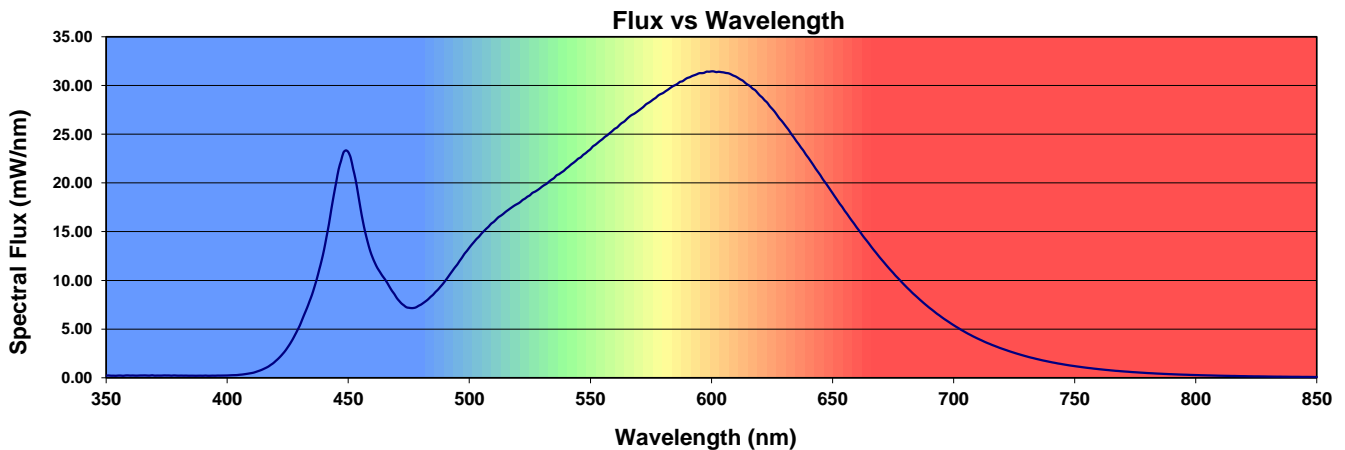
Summary of Results

Total Output:	1727 Lumens	Chromaticity (x):	0.4098
Efficacy:	75.2 lm/w	Chromaticity (y):	0.3962
CCT:	3445 K	Chromaticity (u'):	0.2364
CRI (Ra):	83.4	Chromaticity (v'):	0.5142
CRI (R9):	14.0	TM-30 Rf:	85.5
Peak Wavelength:	600 nm	TM-30 Rg:	96.6
Dominant Wavelength:	581 nm	Duv:	0.0011
S/P Ratio:	1.5		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.4	81.4	89.1	95.6	82.5	81.5	85.7	86.4	65.0	14.0	74.7	81.3	68.2	83.0	97.5	75.2





Distribution - Goniophotometer

Distribution Test Conditions

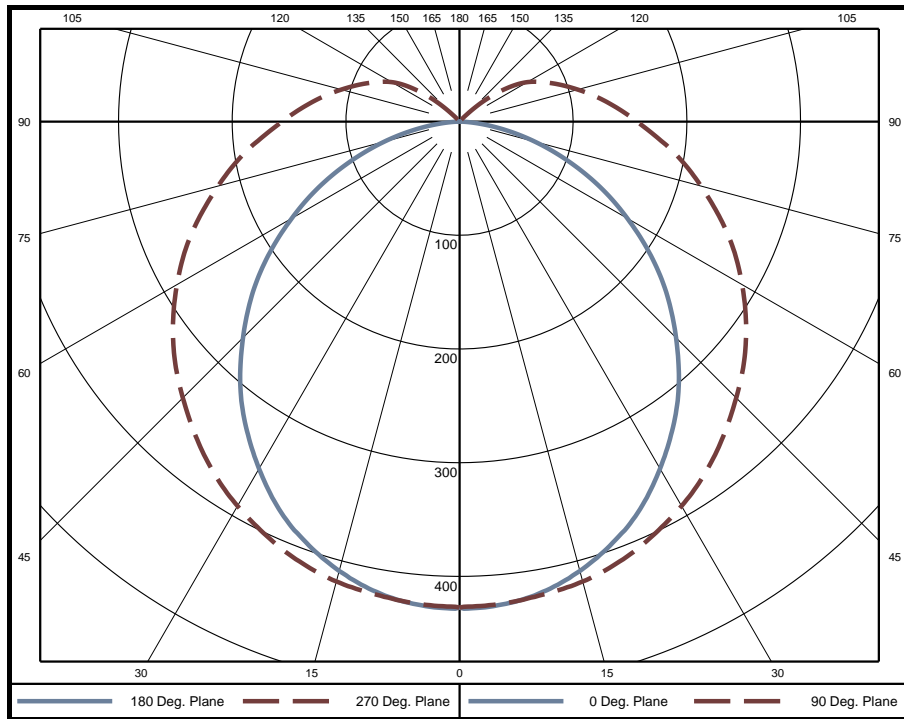
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1931 A	23.05 W	0.994	60 Hz	7.65 %

Summary of Results

Spacing Criteria
 0-180: 1.23
 90-270: 1.36

Total Lumen Output: 1730 Lumens
Luminaire Efficacy: 75.1 lm/w
Maximum Candela: 429 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	10.2	0.6%	60-65	107.2	6.2%	120-125	11.2	0.6%
5-10	30.3	1.8%	65-70	98.4	5.7%	125-130	5.5	0.3%
10-15	49.5	2.9%	70-75	88.0	5.1%	130-135	1.5	0.1%
15-20	67.3	3.9%	75-80	77.1	4.5%	135-140	0.0	0.0%
20-25	83.1	4.8%	80-85	66.1	3.8%	140-145	0	0.0%
25-30	96.3	5.6%	85-90	55.7	3.2%	145-150	0	0.0%
30-35	106.7	6.2%	90-95	47.7	2.8%	150-155	0	0.0%
35-40	114.2	6.6%	95-100	41.0	2.4%	155-160	0	0.0%
40-45	118.4	6.8%	100-105	34.8	2.0%	160-165	0	0.0%
45-50	119.8	6.9%	105-110	28.3	1.6%	165-170	0	0.0%
50-55	118.3	6.8%	110-115	22.2	1.3%	170-175	0	0.0%
55-60	114.0	6.6%	115-120	17.1	1.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	558	32.2%
0-60	1028	59.4%
0-90	1521	87.9%
90-180	209	12.1%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5	427.5
5	426.5	425.3	426.1	426.3	426.0	426.3	426.1	425.3	426.5	425.3	426.1	426.3	426.0	426.3	426.1	425.3
10	420.2	419.2	421.2	422.8	422.6	422.8	421.2	419.2	420.2	419.2	421.2	422.8	422.6	422.8	421.2	419.2
15	409.3	409.4	413.7	417.6	418.8	417.6	413.7	409.4	409.3	409.4	413.7	417.6	418.8	417.6	413.7	409.4
20	394.2	395.8	403.3	409.7	411.8	409.7	403.3	395.8	394.2	395.8	403.3	409.7	411.8	409.7	403.3	395.8
25	376.1	379.0	389.3	398.6	402.0	398.6	389.3	379.0	376.1	379.0	389.3	398.6	402.0	398.6	389.3	379.0
30	352.8	358.4	372.4	385.5	390.5	385.5	372.4	358.4	352.8	358.4	372.4	385.5	390.5	385.5	372.4	358.4
35	327.7	335.1	353.6	370.2	377.0	370.2	353.6	335.1	327.7	335.1	353.6	370.2	377.0	370.2	353.6	335.1
40	300.2	309.9	332.7	352.6	361.1	352.6	332.7	309.9	300.2	309.9	332.7	352.6	361.1	352.6	332.7	309.9
45	269.5	283.1	310.1	333.7	344.1	333.7	310.1	283.1	269.5	283.1	310.1	333.7	344.1	333.7	310.1	283.1
50	238.7	254.5	286.1	314.8	326.8	314.8	286.1	254.5	238.7	254.5	286.1	314.8	326.8	314.8	286.1	254.5
55	205.6	225.3	261.6	294.5	307.6	294.5	261.6	225.3	205.6	225.3	261.6	294.5	307.6	294.5	261.6	225.3
60	170.6	195.5	237.6	273.0	287.0	273.0	237.6	195.5	170.6	195.5	237.6	273.0	287.0	273.0	237.6	195.5
65	136.7	165.0	213.1	251.1	265.8	251.1	213.1	165.0	136.7	165.0	213.1	251.1	265.8	251.1	213.1	165.0
70	102.0	136.4	188.3	228.0	242.8	228.0	188.3	136.4	102.0	136.4	188.3	228.0	242.8	228.0	188.3	136.4
75	69.3	109.6	164.1	205.2	220.0	205.2	164.1	109.6	69.3	109.6	164.1	205.2	220.0	205.2	164.1	109.6
80	39.0	85.6	142.6	183.9	198.2	183.9	142.6	85.6	39.0	85.6	142.6	183.9	198.2	183.9	142.6	85.6
85	14.1	64.7	122.6	162.0	175.9	162.0	122.6	64.7	14.1	64.7	122.6	162.0	175.9	162.0	122.6	64.7
90	1.7	48.4	104.6	142.5	155.8	142.5	104.6	48.4	1.7	48.4	104.6	142.5	155.8	142.5	104.6	48.4
95	1.4	37.7	90.1	126.2	138.7	126.2	90.1	37.7	1.4	37.7	90.1	126.2	138.7	126.2	90.1	37.7
100	1.3	30.0	77.4	111.2	122.9	111.2	77.4	30.0	1.3	30.0	77.4	111.2	122.9	111.2	77.4	30.0
105	1.1	20.8	66.2	97.1	107.9	97.1	66.2	20.8	1.1	20.8	66.2	97.1	107.9	97.1	66.2	20.8
110	1.0	5.9	56.5	84.4	94.3	84.4	56.5	5.9	1.0	5.9	56.5	84.4	94.3	84.4	56.5	5.9
115	0.8	0.8	43.9	72.7	81.6	72.7	43.9	0.8	0.8	0.8	43.9	72.7	81.6	72.7	43.9	0.8
120	0.7	0.6	26.1	59.2	69.2	59.2	26.1	0.6	0.7	0.6	26.1	59.2	69.2	59.2	26.1	0.6
125	0.5	0.3	5.0	39.8	51.2	39.8	5.0	0.3	0.5	0.3	5.0	39.8	51.2	39.8	5.0	0.3
130	0.2	0.0	0.0	17.1	28.6	17.1	0.0	0.0	0.2	0.0	0.0	17.1	28.6	17.1	0.0	0.0
135	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	18030	18030	18030
45	15750	9451	8796
55	14690	8126	7788
65	13070	6965	6873
75	10490	5849	5998
85	5533	4967	5242

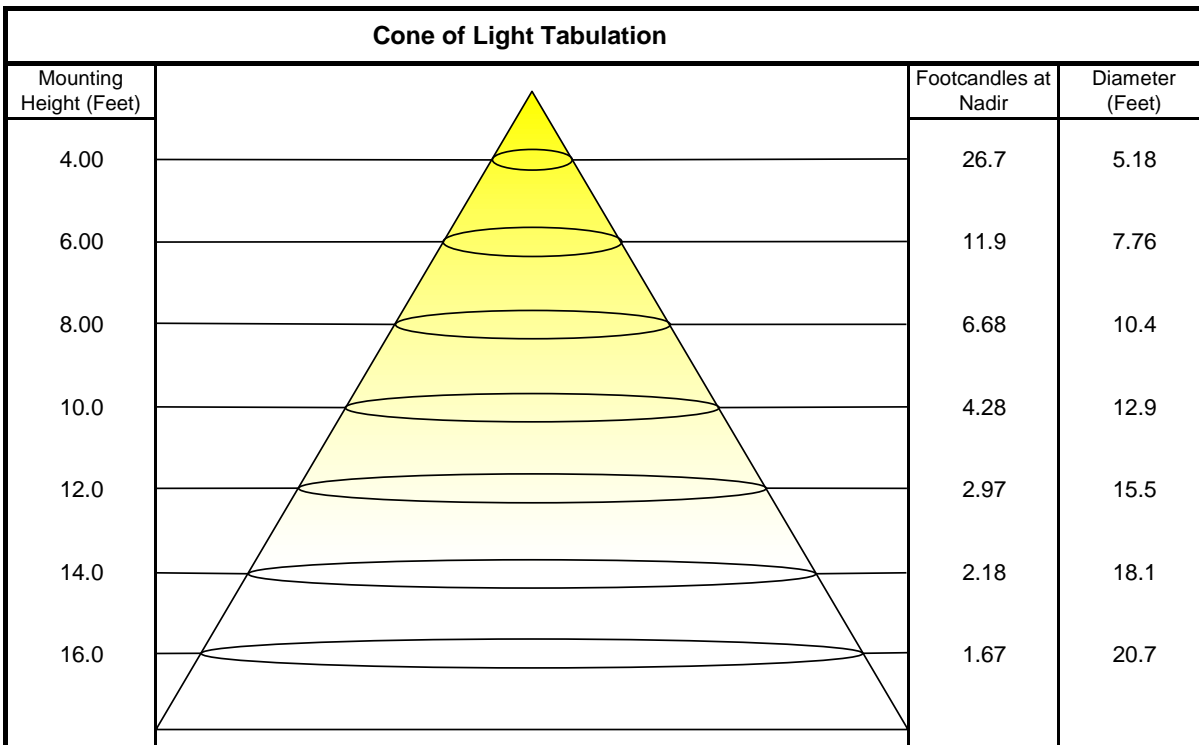


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	103	97	92	87	99	94	89	85	87	83	80	81	78	75	76	73	71	68
2	93	83	76	69	89	80	73	67	75	69	64	70	65	61	65	61	57	54
3	84	72	63	56	80	70	62	55	65	58	52	61	55	50	57	52	48	45
4	77	64	54	47	73	62	53	46	57	50	44	54	47	42	50	45	40	38
5	70	57	47	40	67	55	46	39	51	44	38	48	41	36	45	39	35	32
6	65	51	41	35	62	49	40	34	46	38	33	43	37	31	40	35	30	28
7	60	46	37	30	57	44	36	30	42	34	29	39	33	28	37	31	27	24
8	56	42	33	27	53	40	32	26	38	31	26	36	29	25	34	28	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	21	19
10	49	35	27	22	47	34	26	21	32	25	21	31	24	20	29	23	19	17

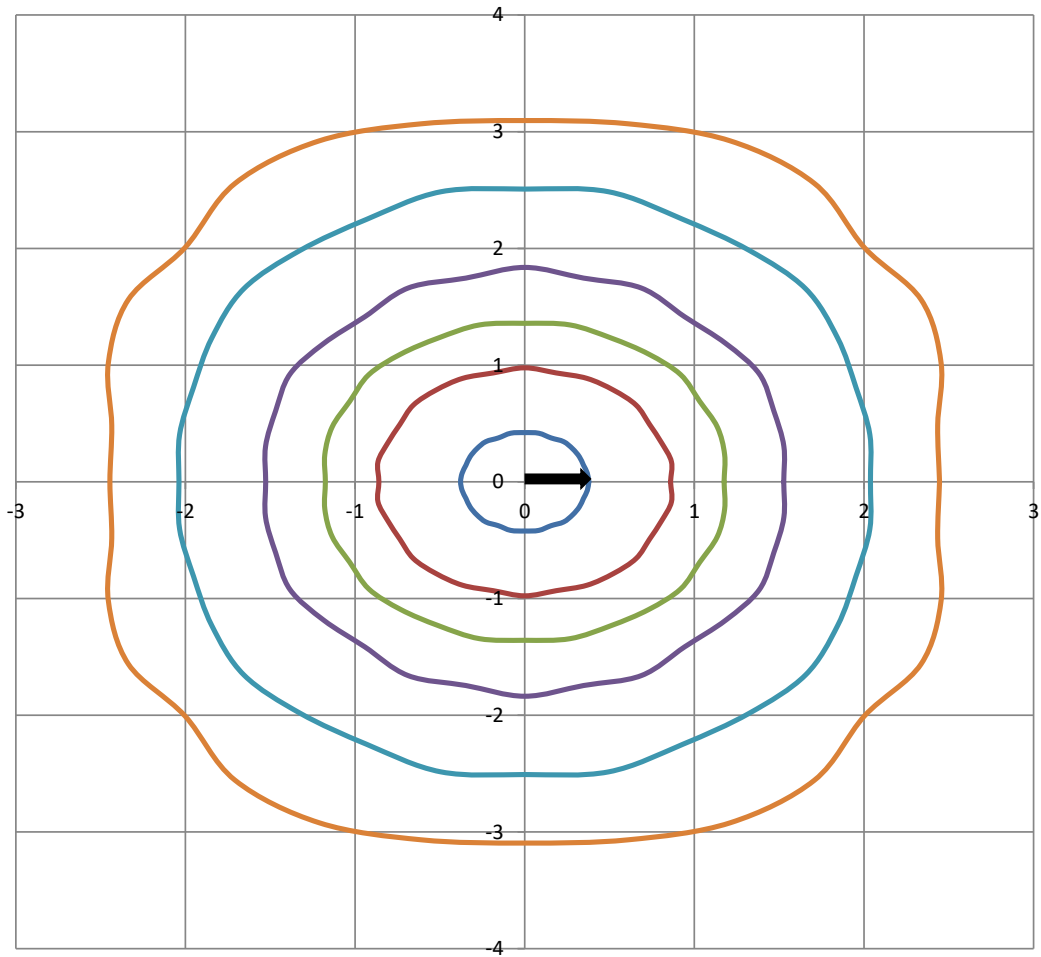
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	427.5 Candela
Central Cone Intensity:	427 Candela
Beam Flux:	1158.7 Lumens
Beam Angle (0-180):	107.6 Degrees
Beam Angle (90-270):	152.8 Degrees
Field Angle (0-180):	158.7 Degrees
Field Angle (90-270):	253.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

