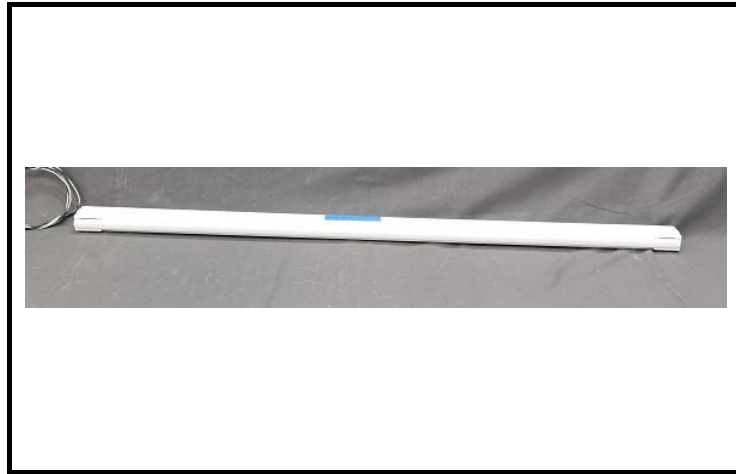




BL6400-50-ND-SM-SN-AW

Luminaire Description: White rectangular metal housing with linear LED module
Lamp: 198 White LEDs with plastic diffuse lens
Mounting: Surface – Ceiling
Ballast/Driver: One (1) HEP Group LCV25W24 UNI

Luminaire



Luminaire Characteristics

Luminous Length: 49.00 in.
Luminous Width: 0.7500 in.
Luminous Height: 0.50 in.

Summary of Results

Integrating Sphere

Luminous Flux: 1707 Lumens
Efficacy: 76.93 lm/w
CCT: 3447 K
CRI (Ra): 83.4

Distribution

Total Luminaire Output: 1692 Lumens
Luminaire Efficacy: 76.1 lm/w
Maximum Candela: 411 Candela

Electrical Data at 120 VAC

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.1862 A
Power: 22.19 W
Power Factor: 0.994
Frequency: 60 Hz
Current THD: 7.80 %



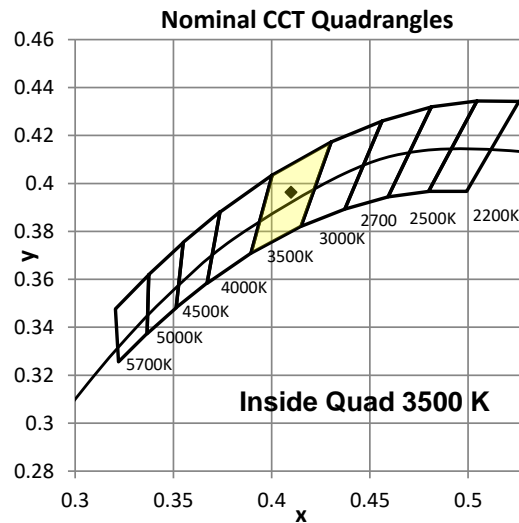
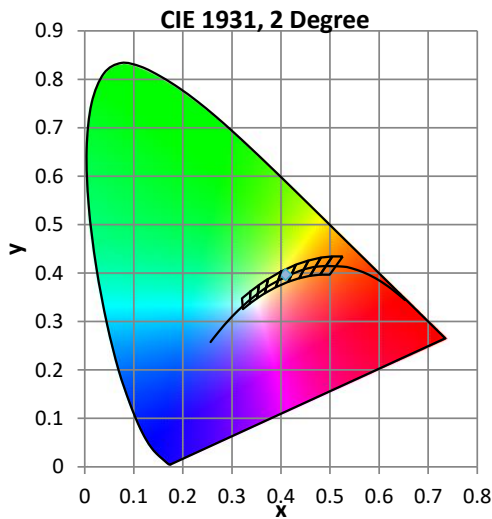
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.1862 A	22.19 W	0.994	60 Hz	7.80 %

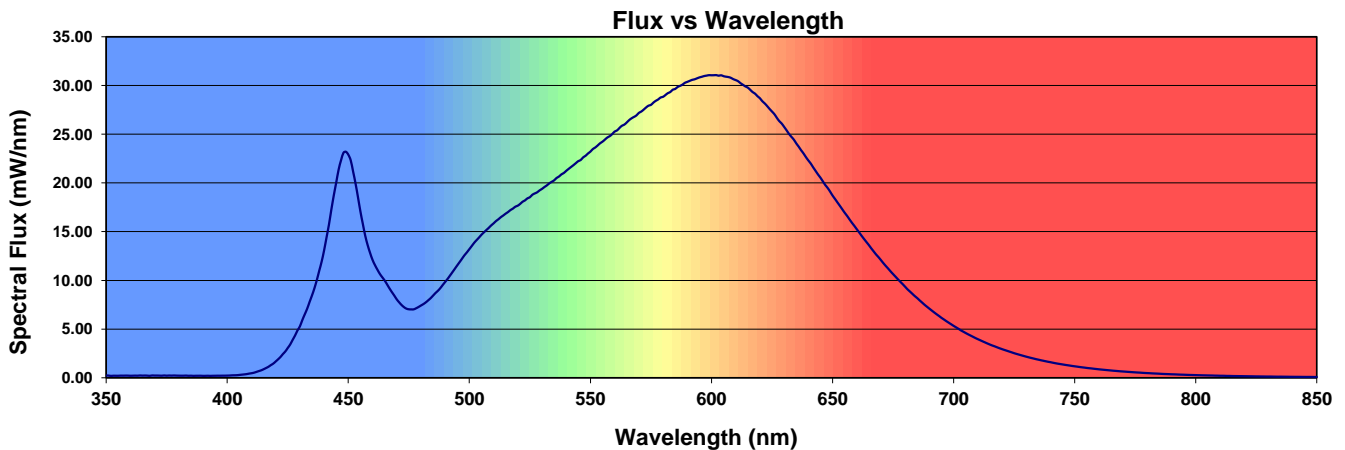
Summary of Results

Total Output:	1707 Lumens	Chromaticity (x):	0.4098
Efficacy:	76.9 lm/w	Chromaticity (y):	0.3963
CCT:	3447 K	Chromaticity (u'):	0.2363
CRI (Ra):	83.4	Chromaticity (v'):	0.5142
CRI (R9):	14.1	TM-30 Rf:	85.5
Peak Wavelength:	607 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	81.5	89.1	95.6	82.6	81.5	85.6	86.4	65.1	14.1	74.7	81.4	68.1	83.0	97.5	75.3





Distribution - Goniophotometer

Distribution Test Conditions

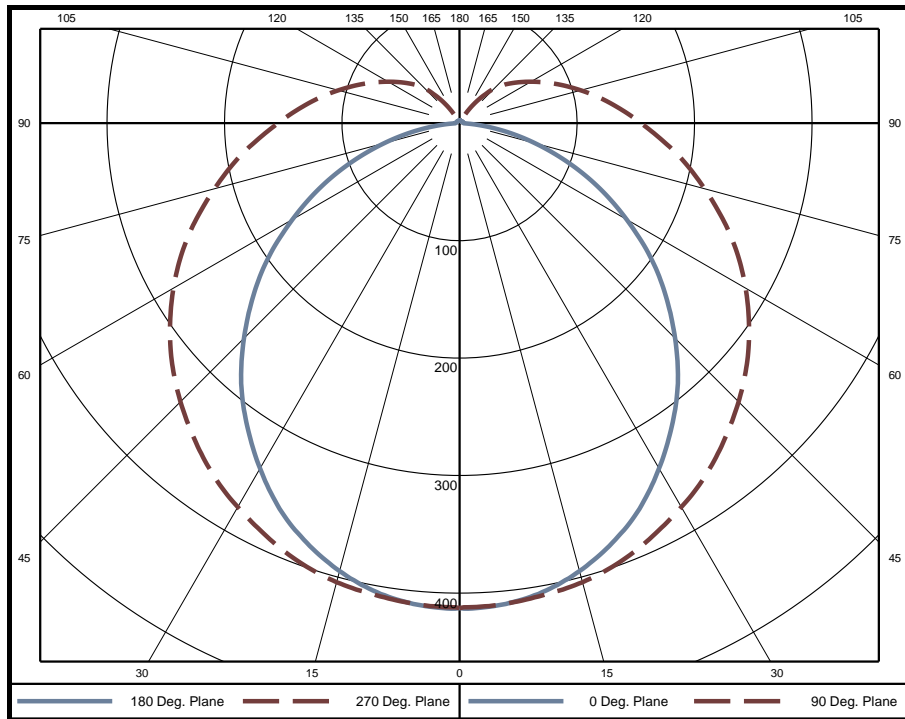
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1866 A	22.24 W	0.994	60 Hz	7.82 %

Summary of Results

Spacing Criteria
 0-180: 1.22
 90-270: 1.37

Total Lumen Output: 1692 Lumens
Luminaire Efficacy: 76.1 lm/w
Maximum Candela: 411 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	9.8	0.6%	60-65	103.3	6.1%	120-125	14.3	0.8%
5-10	29.1	1.7%	65-70	94.9	5.6%	125-130	10.9	0.6%
10-15	47.5	2.8%	70-75	84.9	5.0%	130-135	7.7	0.5%
15-20	64.6	3.8%	75-80	74.4	4.4%	135-140	4.4	0.3%
20-25	79.7	4.7%	80-85	63.8	3.8%	140-145	1.9	0.1%
25-30	92.3	5.5%	85-90	54.0	3.2%	145-150	0.3	0.0%
30-35	102.3	6.0%	90-95	46.2	2.7%	150-155	0	0.0%
35-40	109.5	6.5%	95-100	39.7	2.3%	155-160	0	0.0%
40-45	113.8	6.7%	100-105	33.7	2.0%	160-165	0	0.0%
45-50	115.2	6.8%	105-110	28.3	1.7%	165-170	0	0.0%
50-55	113.8	6.7%	110-115	23.3	1.4%	170-175	0	0.0%
55-60	109.7	6.5%	115-120	18.6	1.1%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	535	31.6%
0-60	987	58.4%
0-90	1463	86.4%
90-180	229	13.6%



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	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2	410.2
5	408.9	408.1	408.9	409.1	408.6	409.1	408.9	408.1	408.9	408.1	408.9	409.1	408.6	409.1	408.9	408.1
10	402.8	402.2	404.3	405.8	405.5	405.8	404.3	402.2	402.8	402.2	404.3	405.8	405.5	405.8	404.3	402.2
15	392.1	392.7	397.0	400.7	402.0	400.7	397.0	392.7	392.1	392.7	397.0	400.7	402.0	400.7	397.0	392.7
20	377.5	379.5	386.9	393.1	395.2	393.1	386.9	379.5	377.5	379.5	386.9	393.1	395.2	393.1	386.9	379.5
25	359.7	363.2	373.2	382.3	385.6	382.3	373.2	363.2	359.7	363.2	373.2	382.3	385.6	382.3	373.2	363.2
30	336.9	343.4	356.9	369.6	374.8	369.6	356.9	343.4	336.9	343.4	356.9	369.6	374.8	369.6	356.9	343.4
35	312.4	320.7	338.6	355.8	363.0	355.8	338.6	320.7	312.4	320.7	338.6	355.8	363.0	355.8	338.6	320.7
40	286.6	296.5	318.7	339.8	348.5	339.8	318.7	296.5	286.6	296.5	318.7	339.8	348.5	339.8	318.7	296.5
45	257.0	270.4	297.9	322.7	333.3	322.7	297.9	270.4	257.0	270.4	297.9	322.7	333.3	322.7	297.9	270.4
50	226.7	242.9	275.6	304.7	316.7	304.7	275.6	242.9	226.7	242.9	275.6	304.7	316.7	304.7	275.6	242.9
55	195.5	214.7	252.4	285.1	298.2	285.1	252.4	214.7	195.5	214.7	252.4	285.1	298.2	285.1	252.4	214.7
60	161.9	186.2	229.4	264.4	278.7	264.4	229.4	186.2	161.9	186.2	229.4	264.4	278.7	264.4	229.4	186.2
65	129.3	157.6	205.8	243.3	258.0	243.3	205.8	157.6	129.3	157.6	205.8	243.3	258.0	243.3	205.8	157.6
70	96.5	130.4	181.9	221.1	235.8	221.1	181.9	130.4	96.5	130.4	181.9	221.1	235.8	221.1	181.9	130.4
75	64.9	104.8	158.8	199.0	213.4	199.0	158.8	104.8	64.9	104.8	158.8	199.0	213.4	199.0	158.8	104.8
80	36.4	81.8	137.7	177.8	192.3	177.8	137.7	81.8	36.4	81.8	137.7	177.8	192.3	177.8	137.7	81.8
85	12.5	61.8	118.6	157.4	171.1	157.4	118.6	61.8	12.5	61.8	118.6	157.4	171.1	157.4	118.6	61.8
90	1.0	46.4	101.5	138.8	151.8	138.8	101.5	46.4	1.0	46.4	101.5	138.8	151.8	138.8	101.5	46.4
95	0.8	36.0	87.3	122.6	134.8	122.6	87.3	36.0	0.8	36.0	87.3	122.6	134.8	122.6	87.3	36.0
100	0.6	28.5	74.8	107.9	119.3	107.9	74.8	28.5	0.6	28.5	74.8	107.9	119.3	107.9	74.8	28.5
105	0.5	22.9	63.9	94.2	104.6	94.2	63.9	22.9	0.5	22.9	63.9	94.2	104.6	94.2	63.9	22.9
110	0.4	18.5	54.5	81.6	91.2	81.6	54.5	18.5	0.4	18.5	54.5	81.6	91.2	81.6	54.5	18.5
115	0.3	12.0	46.0	70.3	78.9	70.3	46.0	12.0	0.3	12.0	46.0	70.3	78.9	70.3	46.0	12.0
120	0.1	5.2	38.7	60.1	67.7	60.1	38.7	5.2	0.1	5.2	38.7	60.1	67.7	60.1	38.7	5.2
125	0.1	0.0	31.7	50.5	57.7	50.5	31.7	0.0	0.1	0.0	31.7	50.5	57.7	50.5	31.7	0.0
130	0.0	0.0	22.0	42.5	48.7	42.5	22.0	0.0	0.0	0.0	22.0	42.5	48.7	42.5	22.0	0.0
135	0.0	0.0	11.3	32.2	38.5	32.2	11.3	0.0	0.0	0.0	11.3	32.2	38.5	32.2	11.3	0.0
140	0.0	0.0	0.8	19.6	25.6	19.6	0.8	0.0	0.0	0.0	0.8	19.6	25.6	19.6	0.8	0.0
145	0.0	0.0	0.0	6.4	12.4	6.4	0.0	0.0	0.0	0.0	0.0	6.4	12.4	6.4	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	17300	17300	17300
45	15170	12020	11930
55	14170	11020	11230
65	12630	10130	10600
75	10190	9285	9968
85	5400	8869	9605

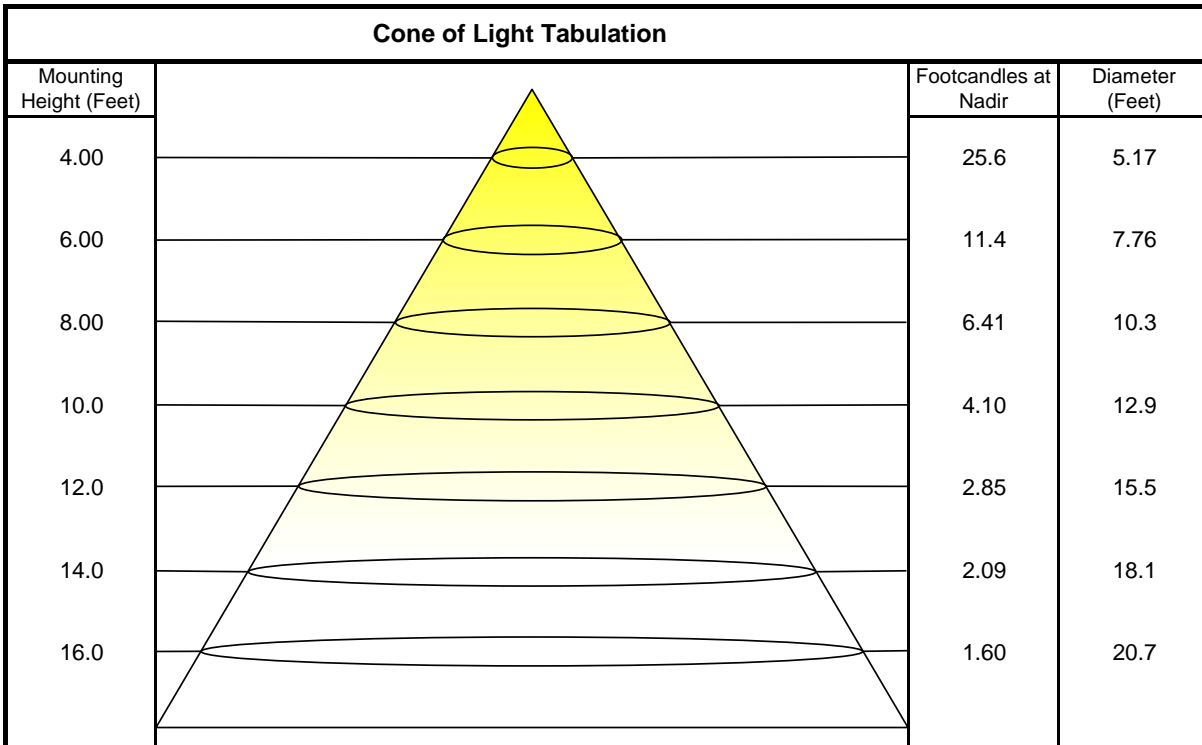


Coefficients of Utilization - Zonal Cavity Method

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	96	96	96	90	90	90	86
1	103	97	92	87	99	93	89	84	87	83	79	80	77	74	74	72	70	67
2	93	83	75	69	89	80	73	67	74	68	63	69	64	60	64	60	56	53
3	84	72	63	56	80	70	61	55	65	58	52	60	54	49	56	51	47	44
4	76	64	54	47	73	61	53	46	57	50	44	53	47	42	49	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37	47	41	36	44	39	34	32
6	64	51	41	34	62	49	40	34	46	38	32	43	36	31	40	34	30	27
7	60	46	37	30	57	44	36	30	41	34	28	39	32	27	36	31	26	24
8	55	42	33	27	53	40	32	26	38	30	25	35	29	24	33	28	23	21
9	52	38	30	24	50	37	29	23	35	28	23	33	26	22	31	25	21	19
10	48	35	27	22	46	34	26	21	32	25	20	30	24	20	28	23	19	17

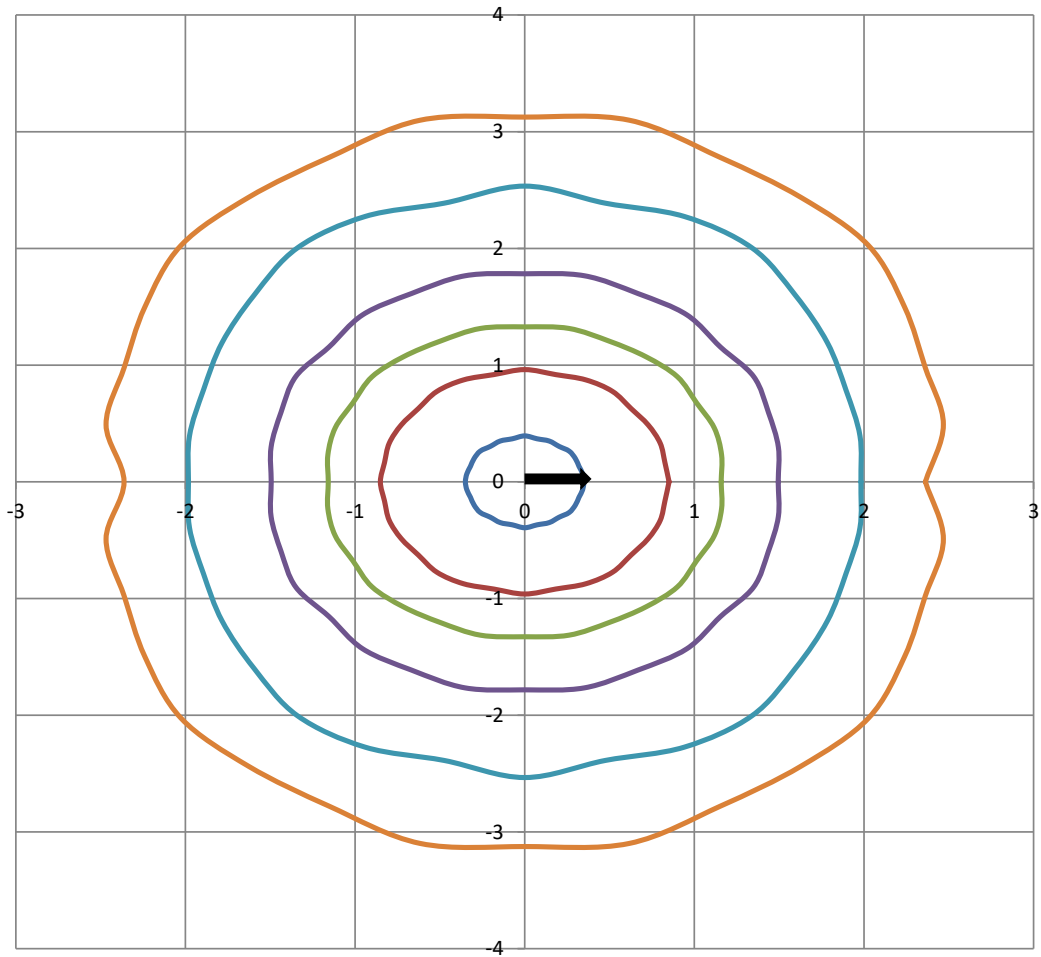
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	410.2 Candela
Central Cone Intensity:	410 Candela
Beam Flux:	1118.0 Lumens
Beam Angle (0-180):	107.1 Degrees
Beam Angle (90-270):	153.8 Degrees
Field Angle (0-180):	158.3 Degrees
Field Angle (90-270):	267.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

