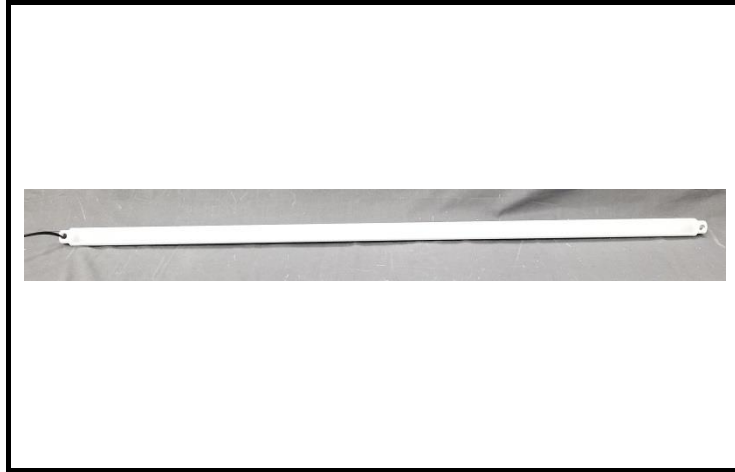




BSW501-4-35-RD-H-6-SN-AW

Luminaire Description: White cylindrical metal housing with diffuse plastic lens
Lamp: 192 White LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One (1) Amperor ANP101-24P1-277-2500L-VD-1

Luminaire



Luminaire Characteristics

Luminous Length: 49.00 in.
Luminous Width: 1.000 in.
Luminous Height: 0.50 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3899 Lumens
Efficacy: 92.86 lm/w
CCT: 3696 K
CRI (Ra): 84.5

Distribution

Total Luminaire Output: 3737 Lumens
Luminaire Efficacy: 89.2 lm/w
Maximum Candela: 1494 Candela

Electrical Data at 120 VAC

Test Temperature: 24.5 °C
Voltage: 120.1 VAC
Current: 0.3531 A
Power: 41.99 W
Power Factor: 0.990
Frequency: 60 Hz
Current THD: 7.24 %



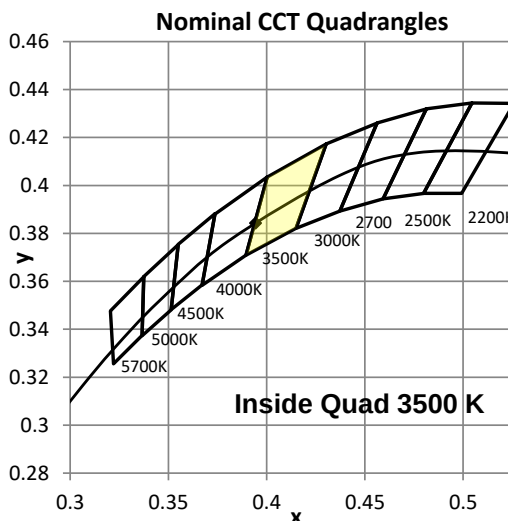
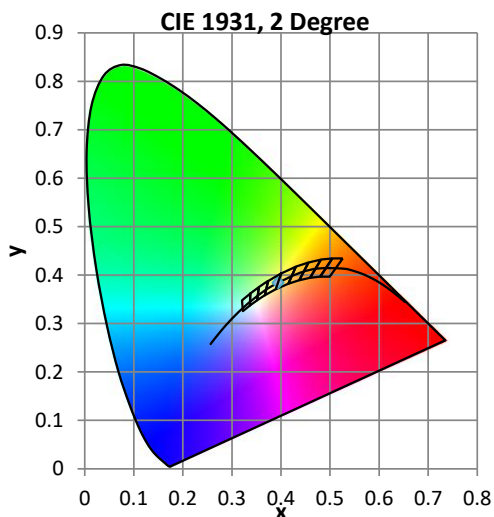
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.3531 A	41.99 W	0.990	60 Hz	7.24 %

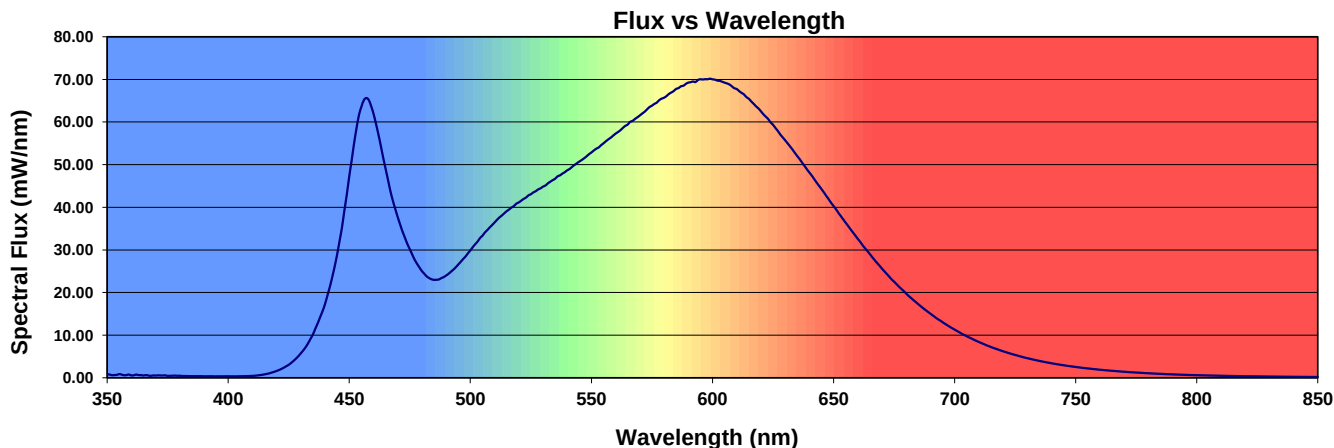
Summary of Results

Total Output:	3899 Lumens	Chromaticity (x):	0.3944
Efficacy:	92.9 lm/w	Chromaticity (y):	0.3843
CCT:	3696 K	Chromaticity (u'):	0.2312
CRI (Ra):	84.5	Chromaticity (v'):	0.5069
CRI (R9):	17.9	TM-30 Rf:	84
Peak Wavelength:	599 nm	TM-30 Rg:	93.4
Dominant Wavelength:	580 nm	Duv:	0.0008
S/P Ratio:	1.64		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84.5	83.6	93.2	95.8	80.6	83.0	89.6	84.8	65.4	17.9	82.7	79.2	65.0	86.4	98.5	78.1





Distribution - Goniophotometer

Distribution Test Conditions

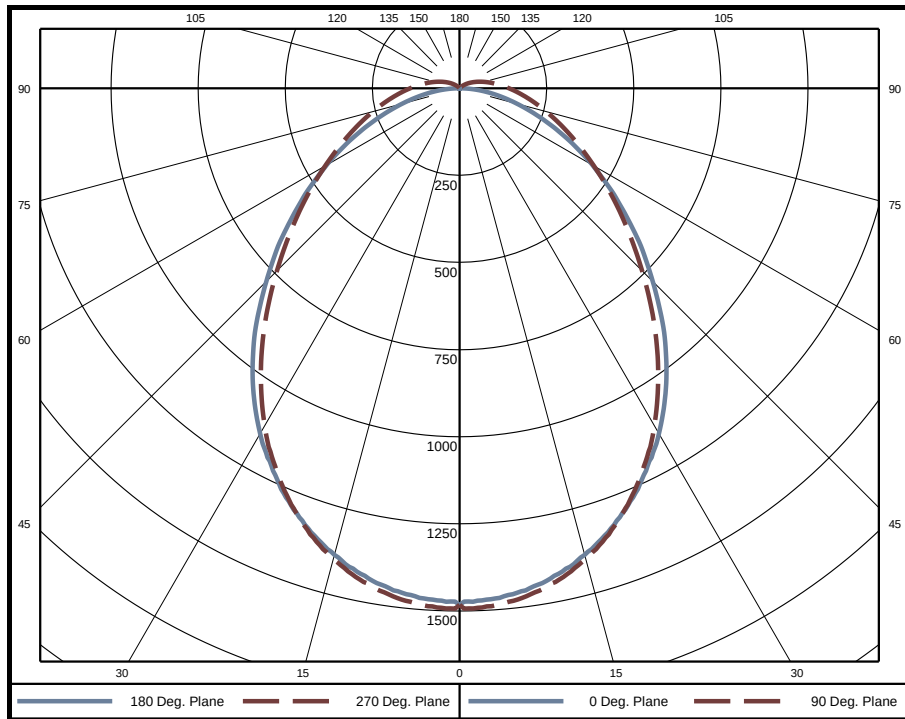
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.3527 A	41.91 W	0.990	60 Hz	7.20 %

Summary of Results

Spacing Criteria
 0-180: 1.16
 90-270: 1.14

Total Lumen Output: 3737 Lumens
 Luminaire Efficacy: 89.2 lm/w
 Maximum Candela: 1494 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	35.3	0.9%	60-65	198.8	5.3%	120-125	5.0	0.1%
5-10	104.3	2.8%	65-70	166.3	4.5%	125-130	2.9	0.1%
10-15	168.1	4.5%	70-75	135.8	3.6%	130-135	1.5	0.0%
15-20	223.7	6.0%	75-80	107.9	2.9%	135-140	0.9	0.0%
20-25	268.1	7.2%	80-85	83.4	2.2%	140-145	0.1	0.0%
25-30	299.9	8.0%	85-90	62.4	1.7%	145-150	0	0.0%
30-35	317.2	8.5%	90-95	46.2	1.2%	150-155	0	0.0%
35-40	319.8	8.6%	95-100	34.4	0.9%	155-160	0	0.0%
40-45	309.5	8.3%	100-105	25.0	0.7%	160-165	0	0.0%
45-50	289.3	7.7%	105-110	17.7	0.5%	165-170	0	0.0%
50-55	262.3	7.0%	110-115	12.1	0.3%	170-175	0	0.0%
55-60	231.4	6.2%	115-120	8.0	0.2%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1736	46.5%
0-60	2829	75.7%
0-90	3584	95.9%
90-180	154	4.1%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical 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	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483	1483
	5	1463	1472	1472	1470	1483	1470	1472	1472	1463	1472	1472	1470	1483	1470	1472
	10	1435	1443	1442	1441	1452	1441	1442	1443	1435	1443	1442	1441	1452	1441	1442
	15	1387	1394	1391	1387	1399	1387	1391	1394	1387	1394	1391	1387	1399	1387	1391
	20	1320	1327	1323	1316	1324	1316	1323	1327	1320	1327	1323	1316	1324	1316	1323
	25	1239	1243	1236	1224	1228	1224	1236	1243	1239	1243	1236	1224	1228	1224	1236
	30	1145	1149	1139	1121	1118	1121	1139	1149	1145	1149	1139	1121	1118	1121	1139
	35	1035	1037	1027	1001	994	1001	1027	1037	1035	1037	1027	1001	994	1001	1027
	40	914	919	907	877	866	877	907	919	914	919	907	877	866	877	907
	45	785	798	787	755	741	755	787	798	785	798	787	755	741	755	787
	50	665	677	670	641	629	641	670	677	665	677	670	641	629	641	670
	55	549	561	561	541	531	541	561	549	561	561	541	531	541	561	561
	60	441	454	463	453	445	453	463	454	441	454	463	453	445	453	463
	65	340	356	379	377	372	377	379	356	340	356	379	377	372	377	379
	70	249	271	307	313	311	313	307	271	249	271	307	313	311	313	307
	75	171	200	245	258	257	258	245	200	171	200	245	258	257	258	245
	80	105	142	193	211	212	211	193	142	105	142	193	211	212	211	193
	85	50	97	150	171	174	171	150	97	50	97	150	171	174	171	150
	90	3	62	115	138	142	138	115	62	3	62	115	138	142	138	115
	95	1	38	86	109	115	109	86	38	1	38	86	109	115	109	86
	100	1	22	63	86	92	86	63	22	1	22	63	86	92	86	63
	105	1	12	45	66	72	66	45	12	1	12	45	66	72	66	45
	110	2	5	31	49	55	49	31	5	2	5	31	49	55	49	31
	115	2	2	20	36	41	36	20	2	2	2	20	36	41	36	20
	120	2	2	12	25	29	25	12	2	2	2	12	25	29	25	12
	125	2	2	6	16	20	16	6	2	2	2	6	16	20	16	6
	130	2	2	2	9	12	9	2	2	2	2	2	9	12	9	2
	135	2	2	2	4	6	4	2	2	2	2	2	4	6	4	2
	140	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	46900	46900
	45	34760	22100
	55	29830	17090
	65	24900	13450
	75	20080	10980
	85	16270	9423



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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	107	102	98	94	104	100	96	92	95	91	88	90	87	85	86	84	82	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	71	62	55	80	69	61	55	66	59	54	63	57	52	61	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	47	41	52	46	41	50	44	40	38
7	65	52	44	38	63	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	43	36	30	42	35	30	40	34	30	39	33	29	27
10	54	41	33	28	52	40	33	28	39	32	27	38	31	27	37	31	27	25

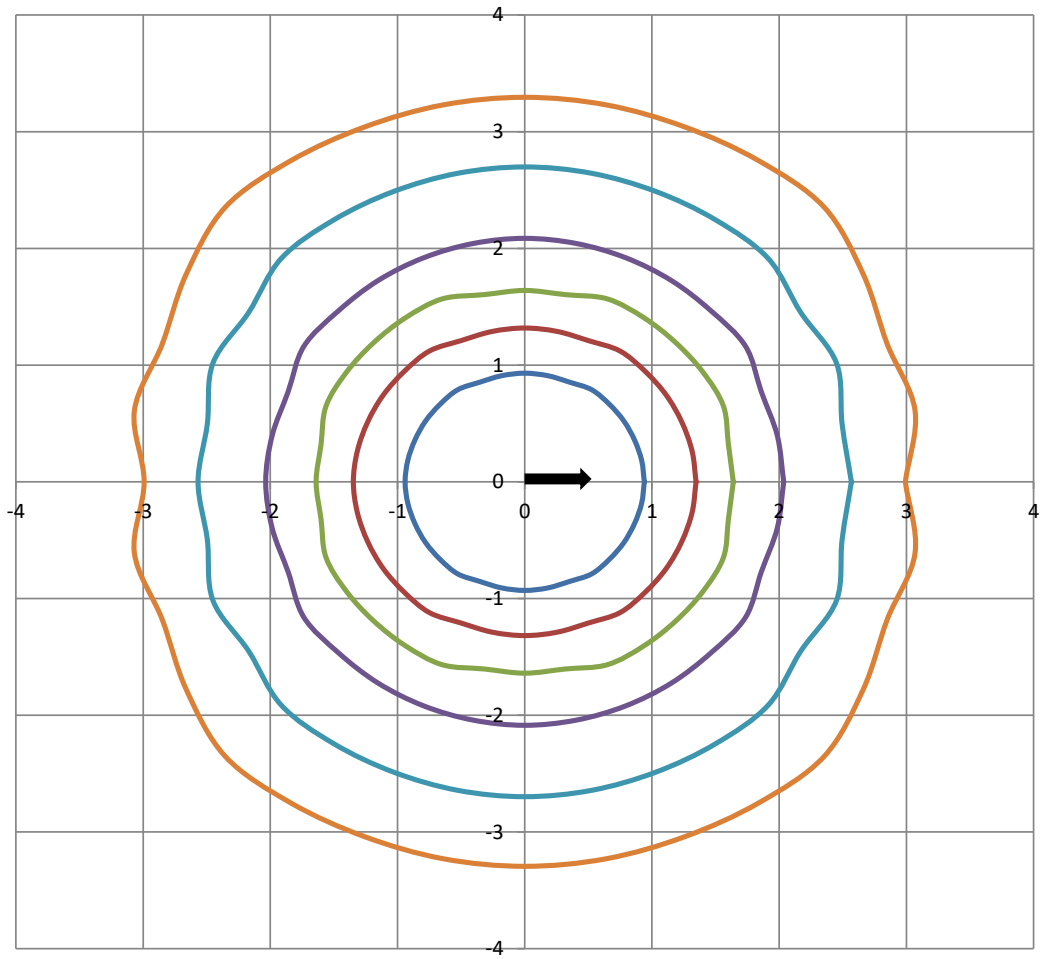
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1483 Candela
Central Cone Intensity:	1479 Candela
Beam Flux:	2131.6 Lumens
Beam Angle (0-180):	93.6 Degrees
Beam Angle (90-270):	90.0 Degrees
Field Angle (0-180):	153.2 Degrees
Field Angle (90-270):	178.0 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		92.7	4.60
6.00		41.2	6.90
8.00		23.2	9.20
10.0		14.8	11.5
12.0		10.3	13.8
14.0		7.56	16.1
16.0		5.79	18.4



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

— 5 fc — 2 fc — 1 fc — 0.5 fc — 0.2 fc — 0.1 fc