



BSW750-4-35-RD-R-SM-SN-AW

Luminaire Description: White rectangular metal housing with diffuse rectangular 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: 2.75 in.
Luminous Width: 48.00 in.
Luminous Height: 2.75 in.

Summary of Results

Integrating Sphere

Luminous Flux: 4757 Lumens
Efficacy: 112.73 lm/w
CCT: 3687 K
CRI (Ra): 84.9

Distribution

Total Luminaire Output: 4539 Lumens
Luminaire Efficacy: 107.8 lm/w
Maximum Candela: 1153 Candela

Electrical Data at 120 VAC

Test Temperature: 25.2 °C
Voltage: 120.2 VAC
Current: 0.3547 A
Power: 42.20 W
Power Factor: 0.990
Frequency: 60 Hz
Current THD: 7.44 %



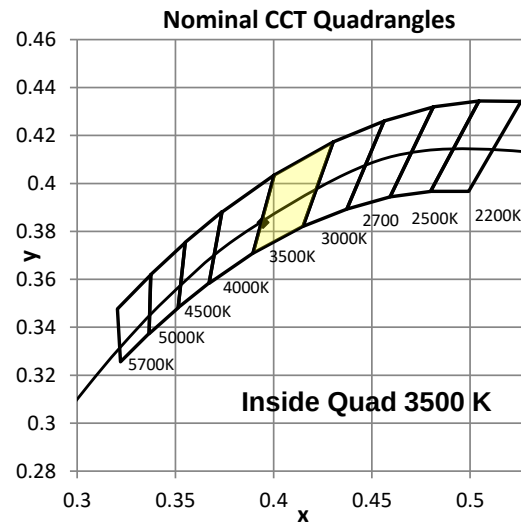
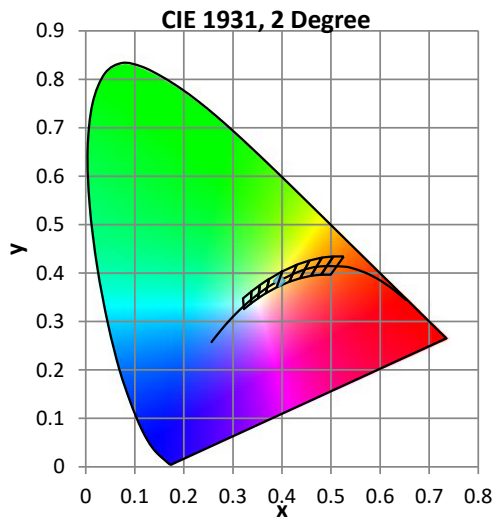
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.2 VAC	0.3547 A	42.20 W	0.990	60 Hz	7.44 %

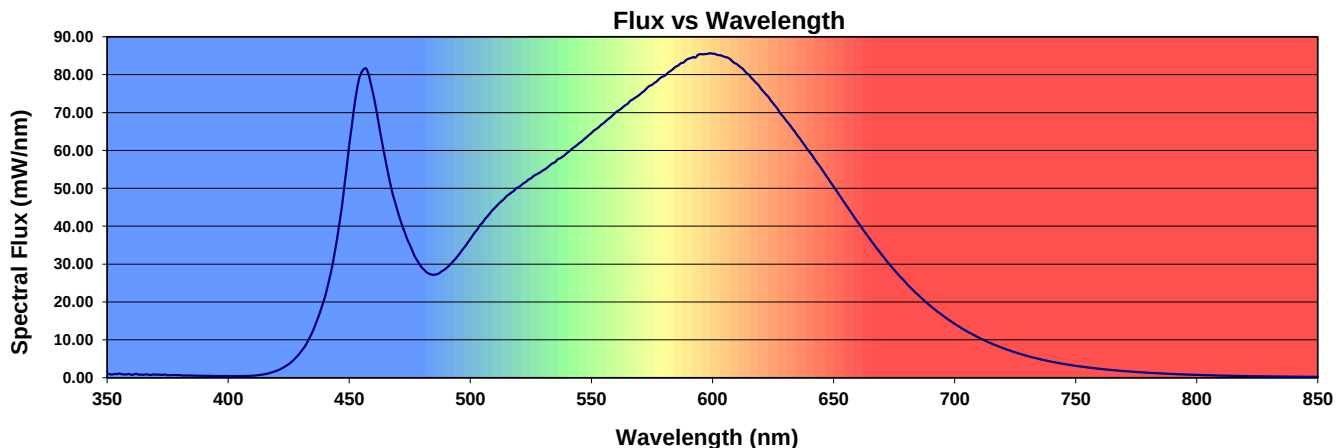
Summary of Results

Total Output:	4757 Lumens	Chromaticity (x):	0.3946
Efficacy:	112.7 lm/w	Chromaticity (y):	0.3837
CCT:	3687 K	Chromaticity (u'):	0.2316
CRI (Ra):	84.9	Chromaticity (v'):	0.5067
CRI (R9):	20.1	TM-30 Rf:	84.4
Peak Wavelength:	599 nm	TM-30 Rg:	93.9
Dominant Wavelength:	581 nm	Duv:	0.0012
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
84.9	84.0	93.1	96.1	81.4	83.4	89.5	85.3	66.3	20.1	82.6	80.0	65.0	86.7	98.6	78.6





Distribution - Goniophotometer

Distribution Test Conditions

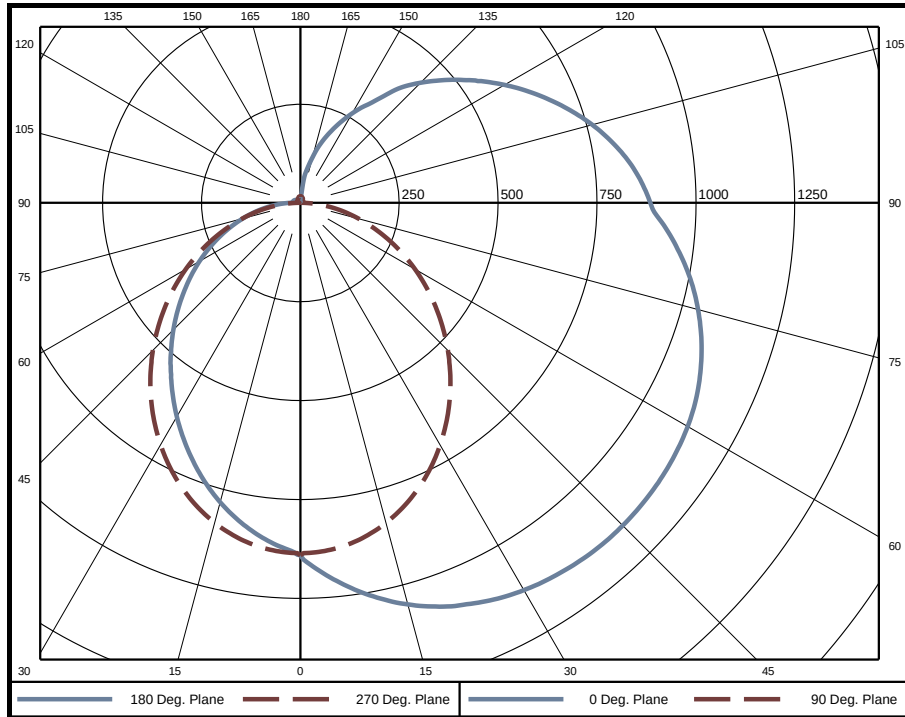
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.3544 A	42.10 W	0.990	60 Hz	7.39 %

Summary of Results

Spacing Criteria
0-180: 1.88
90-270: 1.19

Total Lumen Output: 4539 Lumens
Luminaire Efficacy: 107.8 lm/w
Maximum Candela: 1153 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	21.4	0.5%	60-65	253.7	5.6%	120-125	78.2	1.7%
5-10	64.0	1.4%	65-70	239.1	5.3%	125-130	66.0	1.5%
10-15	105.4	2.3%	70-75	220.8	4.9%	130-135	53.5	1.2%
15-20	144.1	3.2%	75-80	199.8	4.4%	135-140	42.0	0.9%
20-25	178.6	3.9%	80-85	176.5	3.9%	140-145	32.0	0.7%
25-30	208.1	4.6%	85-90	151.8	3.3%	145-150	23.4	0.5%
30-35	231.9	5.1%	90-95	137.6	3.0%	150-155	16.3	0.4%
35-40	249.8	5.5%	95-100	131.2	2.9%	155-160	11.0	0.2%
40-45	261.9	5.8%	100-105	123.0	2.7%	160-165	6.9	0.2%
45-50	267.9	5.9%	105-110	113.2	2.5%	165-170	3.7	0.1%
50-55	268.3	5.9%	110-115	102.2	2.3%	170-175	1.6	0.0%
55-60	263.5	5.8%	115-120	90.6	2.0%	175-180	0.4	0.0%

Zone	Lumens	% of Luminaire
0-40	1203	26.5%
0-60	2265	49.9%
0-90	3507	77.3%
90-180	1033	22.8%



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	891	891	891	891	891	891	891	891	891	891	891	891	891	891	891
	5	955	947	930	909	880	868	861	857	861	857	861	868	880	909	930
	10	1007	991	959	916	864	845	832	825	826	825	832	845	864	916	959
	15	1051	1028	978	913	837	812	795	785	783	785	795	812	837	913	978
	20	1086	1055	988	900	801	773	752	737	734	737	752	773	801	900	988
	25	1111	1073	989	877	758	726	702	686	681	686	702	726	758	877	989
	30	1130	1084	981	845	707	674	648	631	625	631	648	674	707	845	981
	35	1143	1088	966	807	650	619	593	575	567	575	593	619	650	807	966
	40	1151	1086	945	764	590	561	535	519	511	519	535	561	590	764	945
	45	1153	1079	918	716	527	501	479	462	454	462	479	501	527	716	918
	50	1150	1068	886	664	463	441	422	407	399	407	422	441	463	664	886
	55	1143	1051	849	610	398	381	365	353	346	353	365	381	398	610	849
	60	1130	1030	809	555	334	321	309	300	294	300	309	321	334	555	809
	65	1109	1003	766	498	270	262	254	249	243	249	254	262	270	498	766
	70	1079	969	720	440	208	205	202	199	195	199	202	205	208	440	720
	75	1040	928	672	384	150	151	152	151	149	151	152	151	150	384	672
	80	994	881	622	331	97	101	105	107	105	107	105	101	97	331	622
	85	938	827	571	282	47	54	60	66	64	66	60	54	47	282	571
	90	885	779	528	239	3	11	20	26	25	26	20	11	3	239	528
	95	853	751	511	232	3	7	13	18	20	18	13	7	3	232	511
	100	812	716	491	225	4	6	13	18	19	18	13	6	4	225	491
	105	764	676	466	216	5	5	12	16	18	16	12	5	5	216	466
	110	709	630	439	205	6	5	11	16	17	16	11	5	6	205	439
	115	654	582	409	191	7	5	10	14	16	14	10	5	7	191	409
	120	597	532	379	174	7	4	9	13	14	13	9	4	7	174	379
	125	540	483	339	151	8	4	8	12	13	12	8	4	8	151	339
	130	484	432	298	132	9	4	7	10	11	10	7	4	9	132	298
	135	430	376	244	111	9	6	6	9	10	9	6	6	9	111	244
	140	373	331	191	92	10	6	5	7	8	7	5	6	10	92	191
	145	307	274	160	81	11	7	6	6	6	6	7	11	81	160	274
	150	261	206	128	71	12	8	7	6	6	6	7	8	12	71	128
	155	214	146	108	61	13	8	9	7	6	7	9	8	13	61	108
	160	169	107	88	51	14	10	9	9	6	9	9	10	14	51	88
	165	120	71	66	40	15	14	10	9	3	9	10	14	15	40	66
	170	79	44	45	29	16	16	12	10	3	10	12	16	16	29	45
	175	19	24	25	18	17	16	15	13	9	13	15	16	17	18	25
	180	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

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

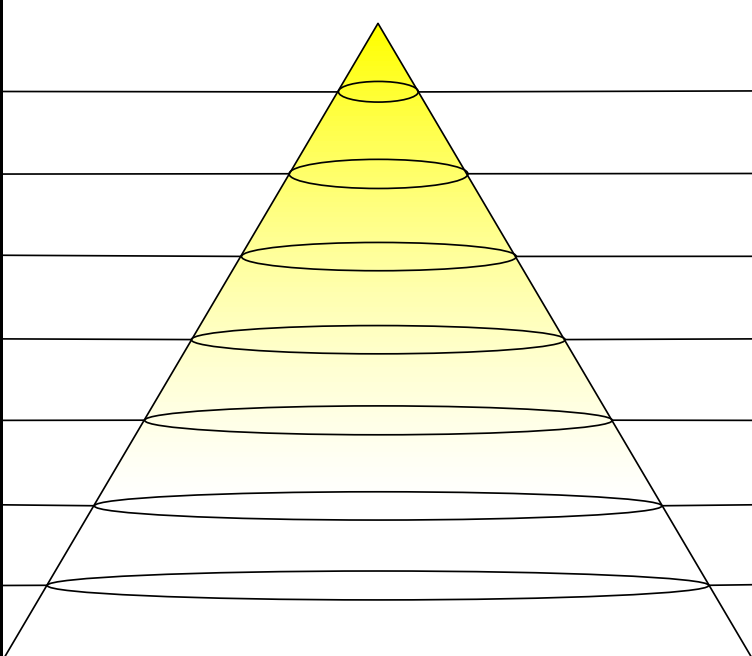
Vertical Angle (Degrees)	0	45	90
	0	10460	10460
	45	9572	8282
	55	9637	7532
	65	9802	6681
	75	9976	5602
	85	10170	3793



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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	101	95	89	85	95	90	85	81	82	78	74	74	71	68	67	64	62	58
2	90	81	73	67	85	77	70	64	70	64	59	63	58	54	57	53	50	46
3	82	70	61	54	77	67	59	52	60	54	48	55	49	45	49	45	41	38
4	74	62	52	45	70	59	50	43	53	46	40	48	42	37	43	39	35	31
5	68	55	45	38	64	52	43	37	47	40	34	43	37	32	39	34	30	27
6	63	49	40	33	59	47	38	32	43	35	30	39	32	28	35	30	26	23
7	58	44	35	29	55	42	34	28	38	31	26	35	29	24	32	27	23	20
8	54	40	31	25	51	38	30	25	35	28	23	32	26	22	29	24	20	18
9	50	36	28	23	47	35	27	22	32	25	21	29	24	19	27	22	18	16
10	47	34	26	20	44	32	25	20	30	23	19	27	21	17	25	20	16	14

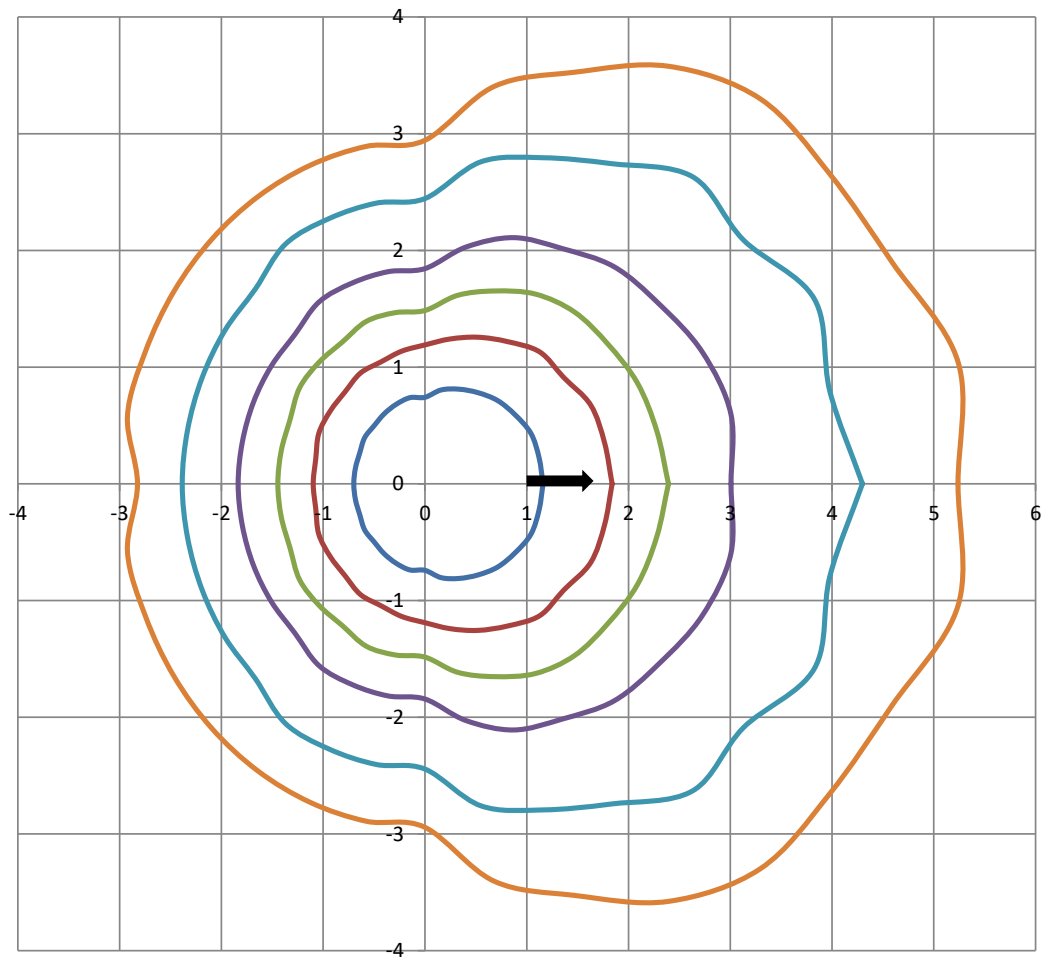
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	891 Candela
Central Cone Intensity:	892 Candela
Beam Flux:	3555.7 Lumens
Beam Angle (0-180):	179.3 Degrees
Beam Angle (90-270):	102.7 Degrees
Field Angle (0-180):	250.5 Degrees
Field Angle (90-270):	161.4 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		55.7	5.37
6.00		24.7	8.05
8.00		13.9	10.7
10.0		8.91	13.4
12.0		6.19	16.1
14.0		4.54	18.8
16.0		3.48	21.5



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