



BSW755-4-35-ID-H-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: 4.00 in.
Luminous Width: 48.00 in.
Luminous Height: 4.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 4808 Lumens
Efficacy: 116.65 lm/w
CCT: 3657 K
CRI (Ra): 84.8

Distribution

Total Luminaire Output: 4572 Lumens
Luminaire Efficacy: 111.1 lm/w
Maximum Candela: 1096 Candela

Electrical Data at 120 VAC

Test Temperature: 25.8 °C
Voltage: 120.0 VAC
Current: 0.3472 A
Power: 41.22 W
Power Factor: 0.989
Frequency: 60 Hz
Current THD: 8.54 %



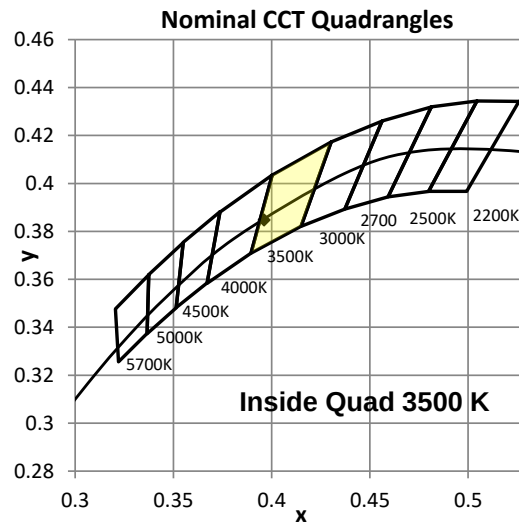
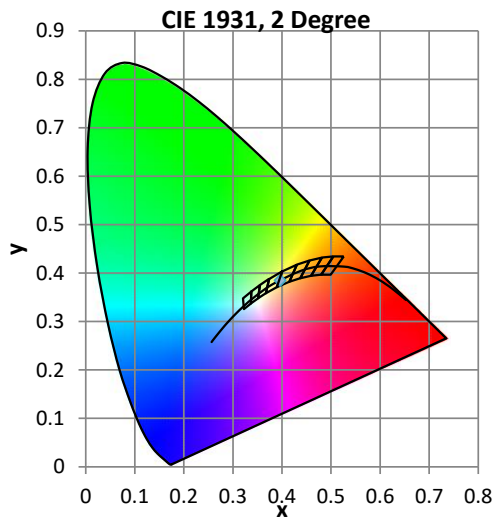
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.3472 A	41.22 W	0.989	60 Hz	8.54 %

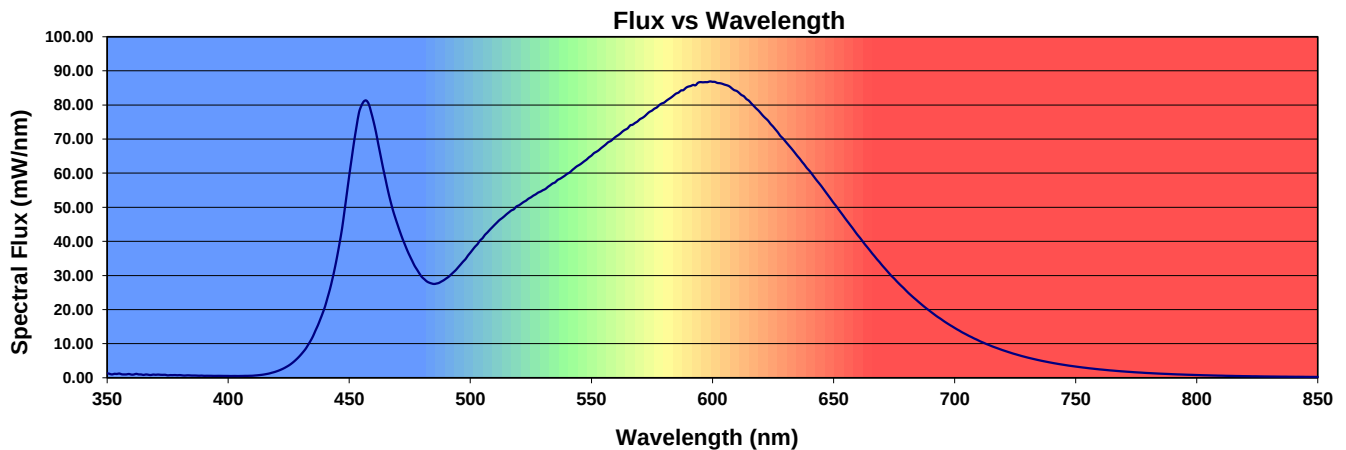
Summary of Results

Total Output:	4808 Lumens	Chromaticity (x):	0.3962
Efficacy:	116.6 lm/w	Chromaticity (y):	0.3848
CCT:	3657 K	Chromaticity (u'):	0.2322
CRI (Ra):	84.8	Chromaticity (v'):	0.5074
CRI (R9):	19.7	TM-30 Rf:	84.3
Peak Wavelength:	600 nm	TM-30 Rg:	93.7
Dominant Wavelength:	581 nm	Duv:	0.0012
S/P Ratio:	1.63		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84.8	83.9	93.2	96.0	81.1	83.3	89.6	85.1	66.0	19.7	82.7	79.7	65.1	86.6	98.6	78.4





Distribution - Goniophotometer

Distribution Test Conditions

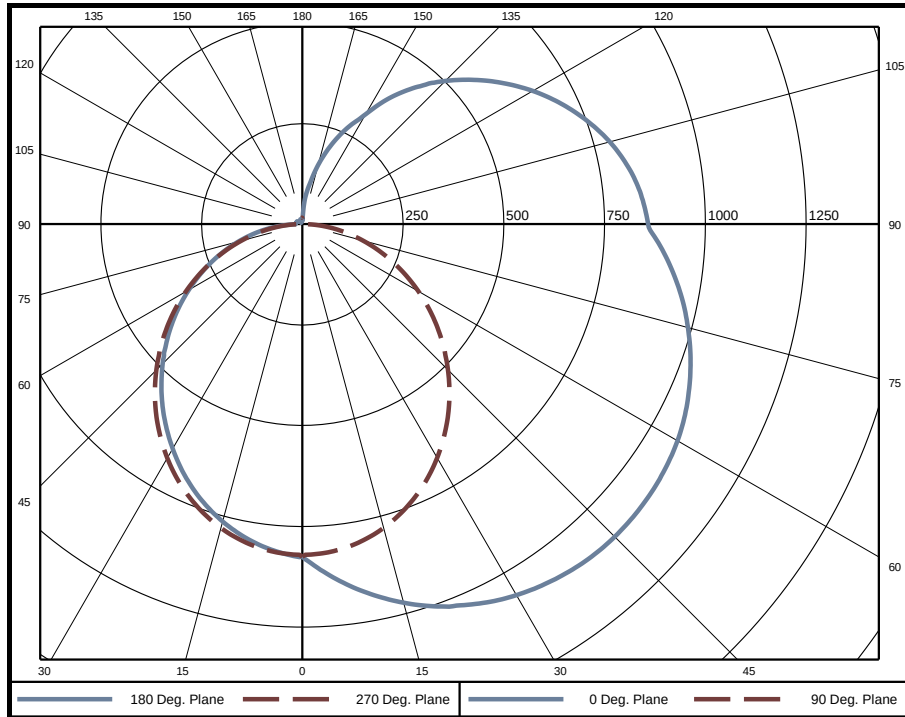
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.3466 A	41.13 W	0.989	60 Hz	8.43 %

Summary of Results

Spacing Criteria
 0-180: 1.92
 90-270: 1.21

Total Lumen Output: 4572 Lumens
Luminaire Efficacy: 111.1 lm/w
Maximum Candela: 1096 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	19.9	0.4%	60-65	253.2	5.5%	120-125	88.1	1.9%
5-10	59.8	1.3%	65-70	238.8	5.2%	125-130	76.0	1.7%
10-15	99.1	2.2%	70-75	220.5	4.8%	130-135	63.5	1.4%
15-20	136.4	3.0%	75-80	199.2	4.4%	135-140	51.2	1.1%
20-25	170.4	3.7%	80-85	175.6	3.8%	140-145	39.4	0.9%
25-30	200.1	4.4%	85-90	150.3	3.3%	145-150	29.4	0.6%
30-35	224.9	4.9%	90-95	137.5	3.0%	150-155	20.9	0.5%
35-40	244.2	5.3%	95-100	133.7	2.9%	155-160	14.1	0.3%
40-45	257.6	5.6%	100-105	127.8	2.8%	160-165	8.7	0.2%
45-50	265.1	5.8%	105-110	119.9	2.6%	165-170	4.7	0.1%
50-55	266.6	5.8%	110-115	110.4	2.4%	170-175	2.0	0.0%
55-60	262.6	5.7%	115-120	99.8	2.2%	175-180	0.4	0.0%

Zone	Lumens	% of Luminaire
0-40	1155	25.3%
0-60	2207	48.3%
0-90	3444	75.3%
90-180	1128	24.7%



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	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825
	5	880	875	860	840	816	815	811	809	813	809	811	815	816	840	860
	10	929	917	888	848	802	797	793	790	792	790	793	797	802	848	888
	15	972	954	909	848	780	772	767	764	764	764	767	772	780	848	909
	20	1009	983	922	839	750	741	734	730	729	730	734	741	750	839	922
	25	1038	1006	927	823	713	703	696	691	689	691	696	703	713	823	927
	30	1063	1021	926	799	670	659	652	647	643	647	652	659	670	799	926
	35	1080	1031	918	769	621	610	603	599	594	599	603	610	621	769	918
	40	1092	1034	904	734	568	559	552	548	543	548	552	559	568	734	904
	45	1096	1032	884	694	512	504	499	495	490	495	499	504	512	694	884
	50	1095	1023	859	650	453	447	444	441	436	441	444	447	453	650	859
	55	1087	1009	828	603	393	390	387	386	381	386	387	390	393	603	828
	60	1075	990	793	553	332	331	330	331	325	331	330	331	332	553	793
	65	1053	964	755	501	271	271	274	275	270	275	274	271	271	501	755
	70	1025	933	713	447	212	213	217	220	216	220	217	213	212	447	713
	75	990	896	669	395	154	157	163	167	163	167	163	157	154	395	669
	80	950	854	623	344	99	104	111	116	113	116	111	104	99	344	623
	85	904	806	575	294	48	54	61	66	64	66	61	54	48	294	575
	90	858	765	534	252	5	10	16	20	18	20	16	10	5	252	534
	95	843	752	526	248	3	6	11	15	16	15	11	6	3	248	526
	100	820	732	513	243	4	6	11	15	16	15	11	6	4	243	513
	105	790	706	496	236	5	6	11	14	16	14	11	6	5	236	496
	110	751	672	476	225	6	5	11	14	15	14	11	5	6	225	476
	115	708	635	451	212	7	5	9	14	15	14	9	5	7	212	451
	120	661	593	424	198	7	4	8	12	15	12	8	4	7	198	424
	125	610	548	393	183	8	4	8	10	11	10	8	4	8	183	393
	130	557	500	353	160	8	5	7	9	10	9	7	5	8	160	353
	135	503	450	310	140	9	9	6	8	9	8	6	9	9	140	310
	140	445	392	254	118	10	10	6	7	8	7	6	10	10	118	254
	145	385	341	199	99	11	10	5	6	6	6	5	10	11	99	199
	150	315	281	163	87	12	11	10	5	5	5	10	11	12	87	163
	155	263	207	131	75	13	12	13	9	6	9	13	12	13	75	131
	160	208	143	108	63	14	13	13	14	12	14	13	13	14	63	108
	165	152	98	83	50	14	14	14	13	8	13	14	14	14	50	83
	170	97	58	56	37	15	15	14	13	8	13	14	15	15	37	56
	175	51	31	32	23	16	15	14	12	8	12	14	15	16	23	32
	180	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	6662	6662
	45	6258	5390
	55	6303	4949
	65	6399	4396
	75	6527	3652
	85	6738	2279



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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	100	94	89	84	95	90	85	80	81	77	73	73	70	67	65	63	61	57
2	90	80	73	66	85	76	69	63	69	63	58	62	57	53	55	52	48	45
3	81	70	61	54	77	66	58	52	60	53	48	54	48	44	48	44	40	36
4	74	61	52	45	70	58	50	43	52	45	40	47	41	37	42	37	33	30
5	68	54	45	38	64	52	43	36	47	39	34	42	36	31	38	33	29	26
6	62	48	39	32	59	46	38	31	42	35	29	38	32	27	34	29	25	22
7	57	44	35	28	54	42	33	27	38	31	25	34	28	24	31	26	22	19
8	53	40	31	25	50	38	30	24	34	27	22	31	25	21	28	23	19	17
9	50	36	28	22	47	35	27	21	32	25	20	29	23	19	26	21	17	15
10	46	33	25	20	44	32	24	19	29	23	18	27	21	17	24	19	16	14

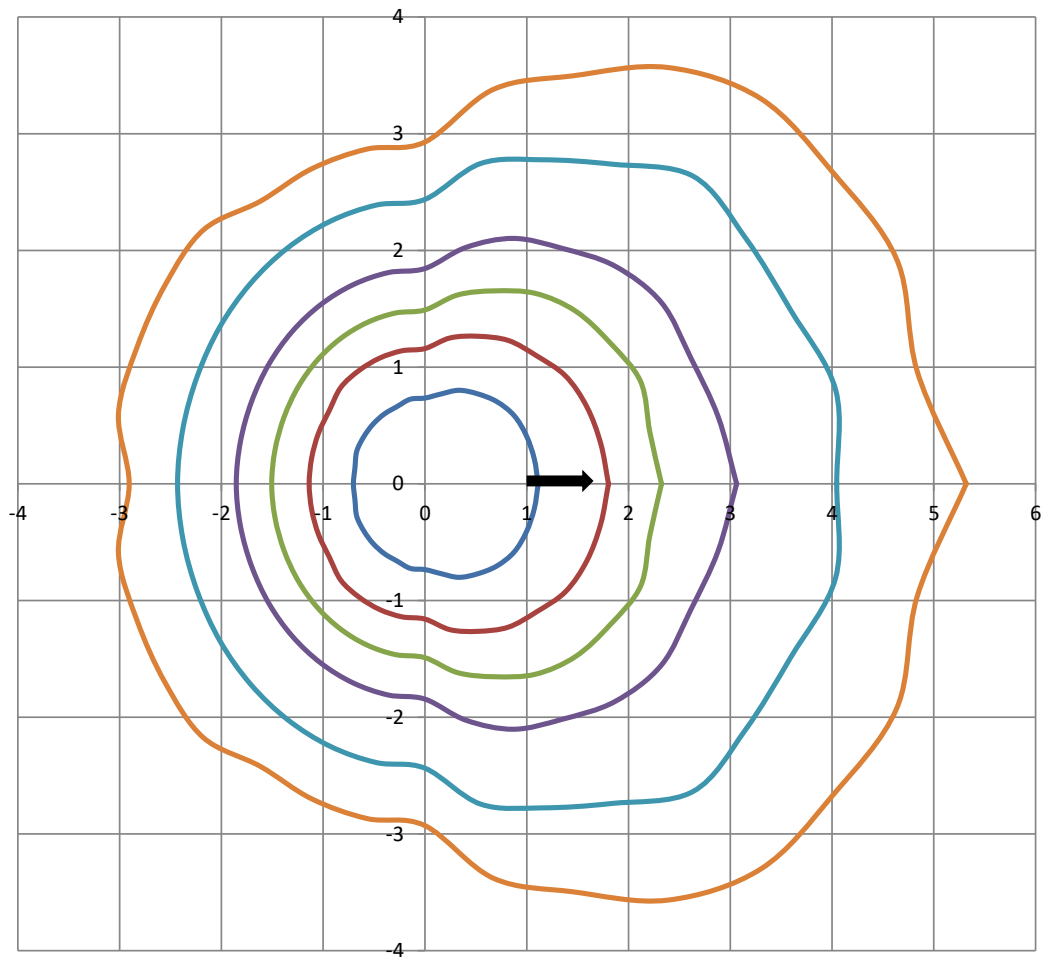
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	825 Candela
Central Cone Intensity:	830 Candela
Beam Flux:	3743.5 Lumens
Beam Angle (0-180):	194.8 Degrees
Beam Angle (90-270):	106.8 Degrees
Field Angle (0-180):	254.9 Degrees
Field Angle (90-270):	163.2 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		51.6	5.59
6.00		22.9	8.38
8.00		12.9	11.2
10.0		8.25	14.0
12.0		5.73	16.8
14.0		4.21	19.6
16.0		3.22	22.4



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