



BFZ100-S-E1-E1-48-35-N-NA-R-1-AW

Luminaire Description: White rectangular metal housing with plastic diffuse lens on each side
Lamp: 352 White LEDs
Mounting: Pendant
Ballast/Driver: One (1) Osram OT96W/24V/UNV/DIM

Luminaire



Luminaire Characteristics

Luminous Length: 48.00 in.
Luminous Width: 2.000 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3385 Lumens
Efficacy: 108.66 lm/w
CCT: 3500 K
CRI (Ra): 94.0

Distribution

Total Luminaire Output: 3306 Lumens
Luminaire Efficacy: 106.4 lm/w
Maximum Candela: 1291 Candela

Electrical Data at 120 VAC

Test Temperature: 25.9 °C
Voltage: 120.1 VAC
Current: 0.2622 A
Power: 31.15 W
Power Factor: 0.990
Frequency: 60 Hz
Current THD: 13.4 %



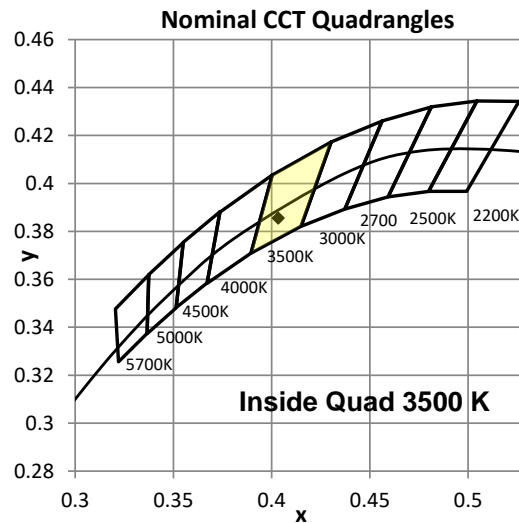
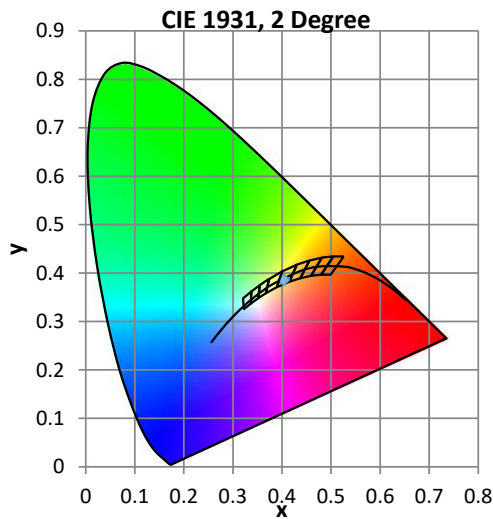
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.1 VAC	0.2622 A	31.15 W	0.990	60 Hz	13.4 %

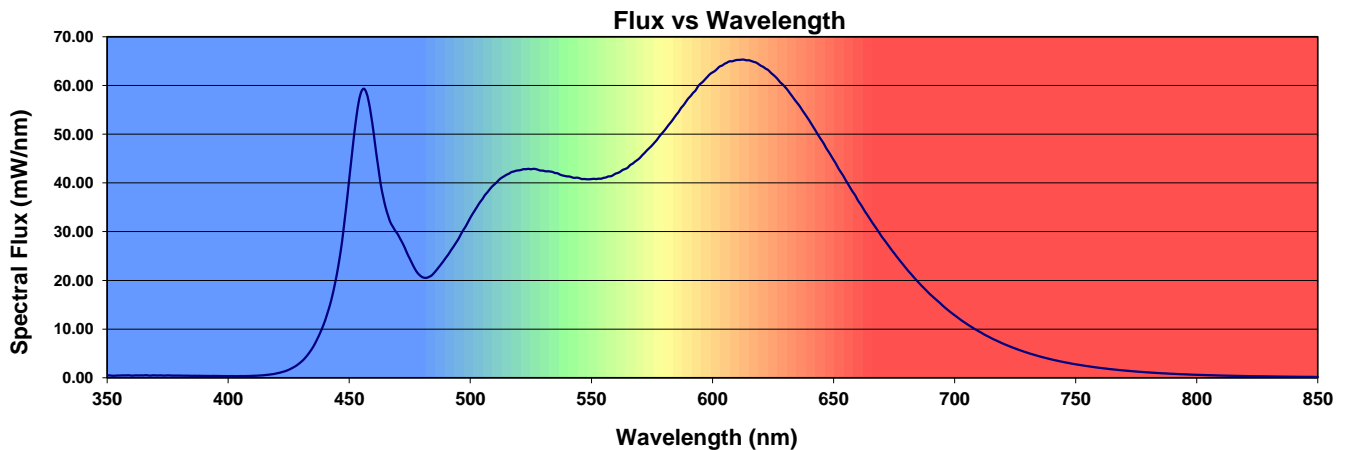
Summary of Results

Total Output:	3385 Lumens	Chromaticity (x):	0.4033
Efficacy:	108.7 lm/w	Chromaticity (y):	0.3855
CCT:	3500 K	Chromaticity (u'):	0.2365
CRI (Ra):	94.0	Chromaticity (v'):	0.5088
CRI (R9):	63.8	TM-30 Rf:	90.7
Peak Wavelength:	612 nm	TM-30 Rg:	97.8
Dominant Wavelength:	582 nm	Duv:	-0.0020
S/P Ratio:	1.71		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.0	98.1	97.7	95.4	97.7	97.4	92.6	90.0	83.1	63.8	95.6	95.9	79.3	98.4	98.1	93.5





Distribution - Goniophotometer

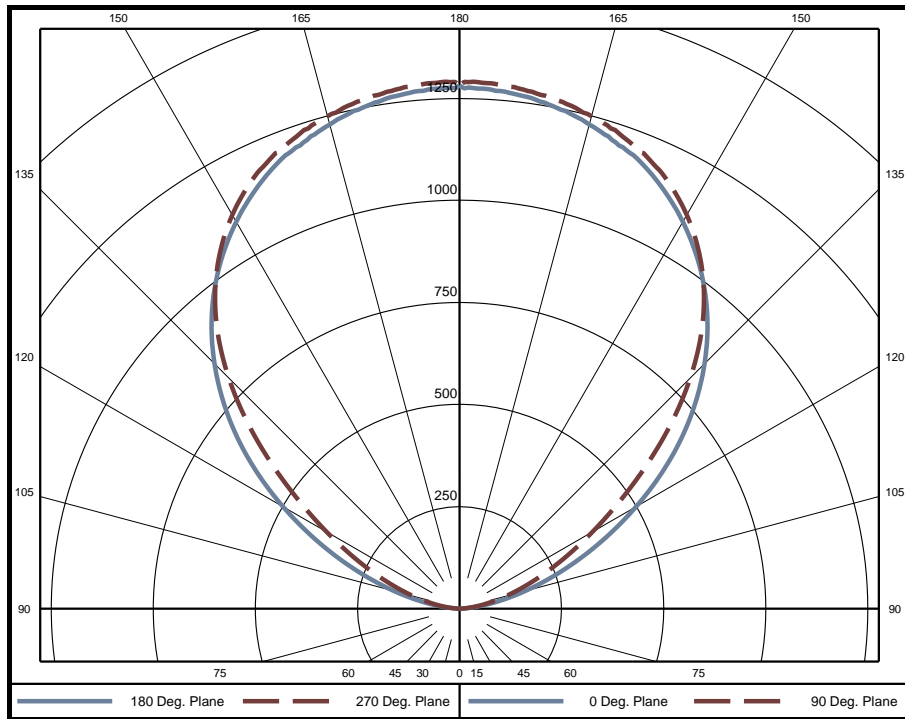
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.2617 A	31.09 W	0.990	60 Hz	13.4 %

Summary of Results

Total Lumen Output:	3306 Lumens
Luminaire Efficacy:	106.4 lm/w
Maximum Candela:	1291 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	234.2	7.1%
5-10	0	0.0%	65-70	0	0.0%	125-130	278.6	8.4%
10-15	0	0.0%	70-75	0	0.0%	130-135	311.6	9.4%
15-20	0	0.0%	75-80	0	0.0%	135-140	328.9	9.9%
20-25	0	0.0%	80-85	0	0.0%	140-145	329.6	10.0%
25-30	0	0.0%	85-90	0	0.0%	145-150	314.9	9.5%
30-35	0	0.0%	90-95	5.3	0.2%	150-155	287.2	8.7%
35-40	0	0.0%	95-100	25.4	0.8%	155-160	248.5	7.5%
40-45	0	0.0%	100-105	55.9	1.7%	160-165	201.1	6.1%
45-50	0	0.0%	105-110	93.6	2.8%	165-170	148.1	4.5%
50-55	0	0.0%	110-115	137.1	4.1%	170-175	90.7	2.7%
55-60	0	0.0%	115-120	185.2	5.6%	175-180	30.6	0.9%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	3307	100.0%



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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	27	28	24	21	20	21	24	28	27	28	24	21	20	21	24	28
100	86	83	72	63	60	63	72	83	86	83	72	63	60	63	72	83
105	165	159	137	121	115	121	137	159	165	159	137	121	115	121	137	159
110	262	253	219	193	185	193	219	253	262	253	219	193	185	193	219	253
115	376	367	322	282	270	282	322	367	376	367	322	282	270	282	322	367
120	499	494	445	393	376	393	445	494	499	494	445	393	376	393	445	494
125	624	625	580	526	504	526	580	625	624	625	580	526	504	526	580	625
130	742	747	716	672	653	672	716	747	742	747	716	672	653	672	716	747
135	848	858	840	811	799	811	840	858	848	858	840	811	799	811	840	858
140	943	953	947	931	928	931	947	953	943	953	947	931	928	931	947	953
145	1024	1035	1037	1029	1032	1029	1037	1035	1024	1035	1037	1029	1032	1029	1037	1035
150	1093	1104	1108	1106	1113	1106	1108	1104	1093	1104	1108	1106	1113	1106	1108	1104
155	1151	1160	1165	1166	1176	1166	1165	1160	1151	1160	1165	1166	1176	1166	1165	1160
160	1194	1201	1205	1207	1217	1207	1205	1201	1194	1201	1205	1207	1217	1207	1205	1201
165	1227	1236	1234	1237	1249	1237	1234	1236	1227	1236	1234	1237	1249	1237	1234	1236
170	1254	1261	1259	1260	1272	1260	1259	1261	1254	1261	1259	1260	1272	1260	1259	1261
175	1271	1277	1275	1274	1286	1274	1275	1277	1271	1277	1275	1274	1286	1274	1275	1277
180	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281

Vertical Angle (Degrees)



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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

Up Light Beam and Field Information	
CIE Type:	Indirect
Center Beam Intensity:	1281 Candela
Central Cone Intensity:	1279 Candela
Beam Flux:	3306.3 Lumens
Beam Angle (0-180):	108.6 Degrees
Beam Angle (90-270):	100.8 Degrees
Field Angle (0-180):	154.3 Degrees
Field Angle (90-270):	148.0 Degrees