



BFZ100-S-E1-E1-48-35-N-NA-R-2-AW

Luminaire Description: White rectangular metal housing with plastic diffuse lens
Lamp: 384 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: 2877 Lumens
Efficacy: 86.31 lm/w
CCT: 3445 K
CRI (Ra): 93.9

Distribution

Total Luminaire Output: 2804 Lumens
Luminaire Efficacy: 83.9 lm/w
Maximum Candela: 938 Candela

Electrical Data at 120 VAC

Test Temperature: 25.2 °C
Voltage: 120.1 VAC
Current: 0.2804 A
Power: 33.33 W
Power Factor: 0.990
Frequency: 60 Hz
Current THD: 13.1 %



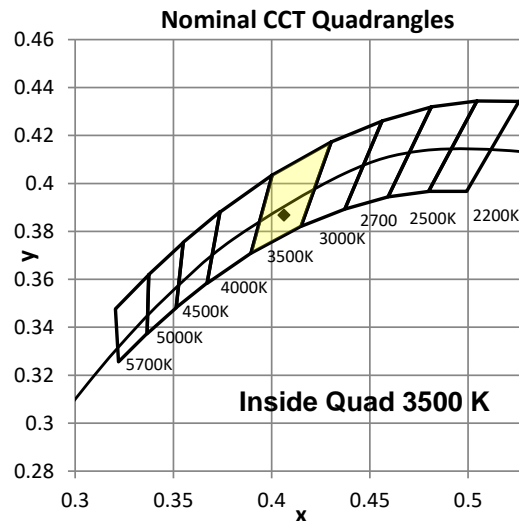
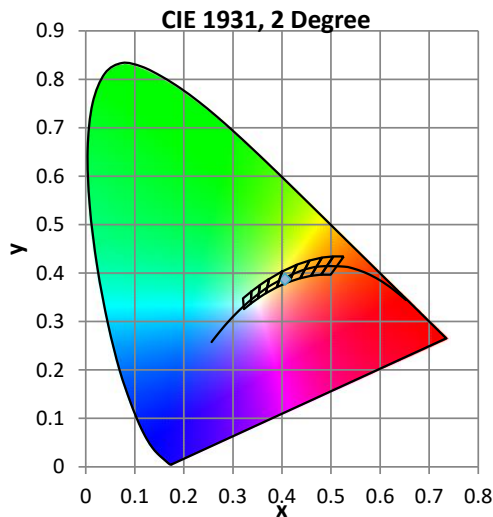
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.2804 A	33.33 W	0.990	60 Hz	13.1 %

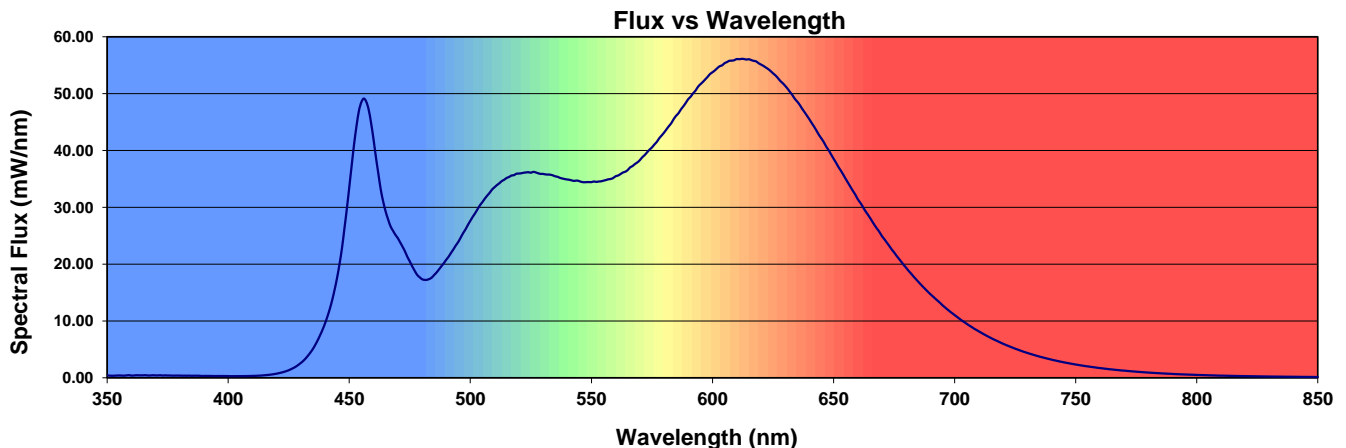
Summary of Results

Total Output:	2877 Lumens	Chromaticity (x):	0.4062
Efficacy:	86.3 lm/w	Chromaticity (y):	0.3868
CCT:	3445 K	Chromaticity (u'):	0.2379
CRI (Ra):	93.9	Chromaticity (v'):	0.5098
CRI (R9):	63.6	TM-30 Rf:	90.7
Peak Wavelength:	612 nm	TM-30 Rg:	97.8
Dominant Wavelength:	582 nm	Duv:	-0.0022
S/P Ratio:	1.69		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93.9	98.1	97.6	95.1	97.8	97.4	92.3	89.8	82.9	63.6	95.2	95.6	79.7	98.3	98.0	93.6





Distribution - Goniophotometer

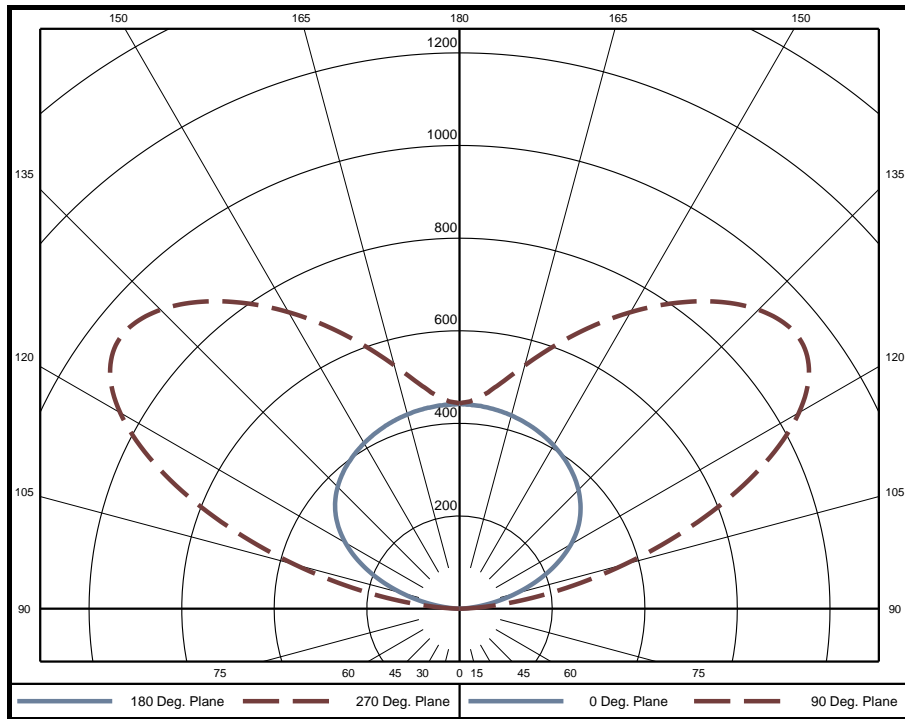
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.8 °C	120.0 VAC	0.2810 A	33.40 W	0.991	60 Hz	13.0 %

Summary of Results

Total Lumen Output:	2804 Lumens
Luminaire Efficacy:	83.9 lm/w
Maximum Candela:	938 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	296.5	10.6%
5-10	0	0.0%	65-70	0	0.0%	125-130	295.2	10.5%
10-15	0	0.0%	70-75	0	0.0%	130-135	276.5	9.9%
15-20	0	0.0%	75-80	0	0.0%	135-140	247.5	8.8%
20-25	0	0.0%	80-85	0	0.0%	140-145	213.8	7.6%
25-30	0	0.0%	85-90	0	0.0%	145-150	178.9	6.4%
30-35	0	0.0%	90-95	11.5	0.4%	150-155	144.9	5.2%
35-40	0	0.0%	95-100	52.8	1.9%	155-160	112.8	4.0%
40-45	0	0.0%	100-105	110.4	3.9%	160-165	83.3	3.0%
45-50	0	0.0%	105-110	173.3	6.2%	165-170	56.6	2.0%
50-55	0	0.0%	110-115	231.4	8.3%	170-175	32.6	1.2%
55-60	0	0.0%	115-120	275.0	9.8%	175-180	10.6	0.4%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	2804	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	24.5	42.1	60.0	70.3	71.7	64.2	48.7	32.5	25.8	32.5	48.7	64.2	71.7	70.3	60.0	42.1
100	71.1	112.4	162.9	196.1	203.6	187.0	148.6	101.1	73.1	101.1	148.6	187.0	203.6	196.1	162.9	112.4
105	125.4	198.6	291.3	352.8	368.3	341.9	276.3	186.5	128.1	186.5	276.3	341.9	368.3	352.8	291.3	198.6
110	181.4	288.9	428.3	519.6	547.3	508.8	413.4	278.7	184.9	278.7	413.4	508.8	547.3	519.6	428.3	288.9
115	233.5	372.0	554.3	673.8	715.6	666.6	542.1	366.6	238.4	366.6	542.1	666.6	715.6	673.8	554.3	372.0
120	278.5	436.1	650.4	794.6	845.8	789.8	645.1	437.5	284.6	437.5	645.1	789.8	845.8	794.6	650.4	436.1
125	314.2	476.4	706.1	861.8	919.9	860.7	707.2	482.5	321.8	482.5	707.2	860.7	919.9	861.8	706.1	476.4
130	341.3	493.6	722.3	877.1	937.2	880.2	728.7	504.1	350.7	504.1	728.7	880.2	937.2	877.1	722.3	493.6
135	363.3	495.7	708.3	855.8	912.8	860.0	719.5	509.5	371.8	509.5	719.5	860.0	912.8	855.8	708.3	495.7
140	380.5	490.3	678.3	812.4	865.3	819.1	691.0	504.6	388.3	504.6	691.0	819.1	865.3	812.4	678.3	490.3
145	394.8	481.8	639.5	758.1	805.2	764.8	653.2	494.9	401.2	494.9	653.2	764.8	805.2	758.1	639.5	481.8
150	406.5	471.4	598.4	697.7	739.4	704.6	611.6	484.3	412.2	484.3	611.6	704.6	739.4	697.7	598.4	471.4
155	416.6	462.0	557.5	636.5	671.6	643.8	569.9	474.5	420.8	474.5	569.9	643.8	671.6	636.5	557.5	462.0
160	424.8	453.7	519.2	577.9	605.3	584.4	530.2	464.4	428.2	464.4	530.2	584.4	605.3	577.9	519.2	453.7
165	431.6	447.8	486.3	524.0	543.7	528.8	495.3	456.2	434.1	456.2	495.3	528.8	543.7	524.0	486.3	447.8
170	436.4	443.9	461.1	479.8	491.7	483.0	467.7	449.8	438.2	449.8	467.7	483.0	491.7	479.8	461.1	443.9
175	439.6	442.2	446.4	451.4	457.1	452.5	449.2	444.4	439.9	444.4	449.2	452.5	457.1	451.4	446.4	442.2
180	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4

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:	442.4 Candela
Central Cone Intensity:	444 Candela
Beam Flux:	2803.6 Lumens
Beam Angle (0-180):	132.9 Degrees
Beam Angle (90-270):	158.9 Degrees
Field Angle (0-180):	165.6 Degrees
Field Angle (90-270):	172.7 Degrees