



BFZ100-R-48-DE-DE-35-N-R

Same as BFZ100-S-E1-E1-48-35-N-R-NA-NA-AW

Luminaire Description: White rectangular metal housing with plastic diffuse lens on each side
Lamp: 640 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: 2719 Lumens
Efficacy: 91.94 lm/w
CCT: 3486 K
CRI (Ra): 94.5

Distribution

Total Luminaire Output: 2653 Lumens
Luminaire Efficacy: 89.8 lm/w
Maximum Candela: 1035 Candela

Electrical Data at 120 VAC

Test Temperature: 25.9 °C
Voltage: 120.1 VAC
Current: 0.2490 A
Power: 29.58 W
Power Factor: 0.989
Frequency: 60 Hz
Current THD: 13.7 %



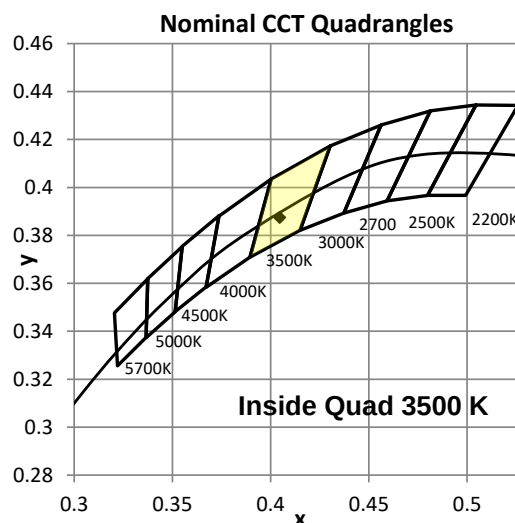
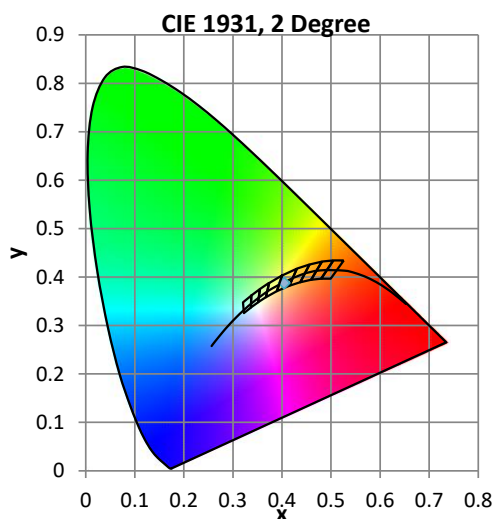
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.1 VAC	0.2490 A	29.58 W	0.989	60 Hz	13.7 %

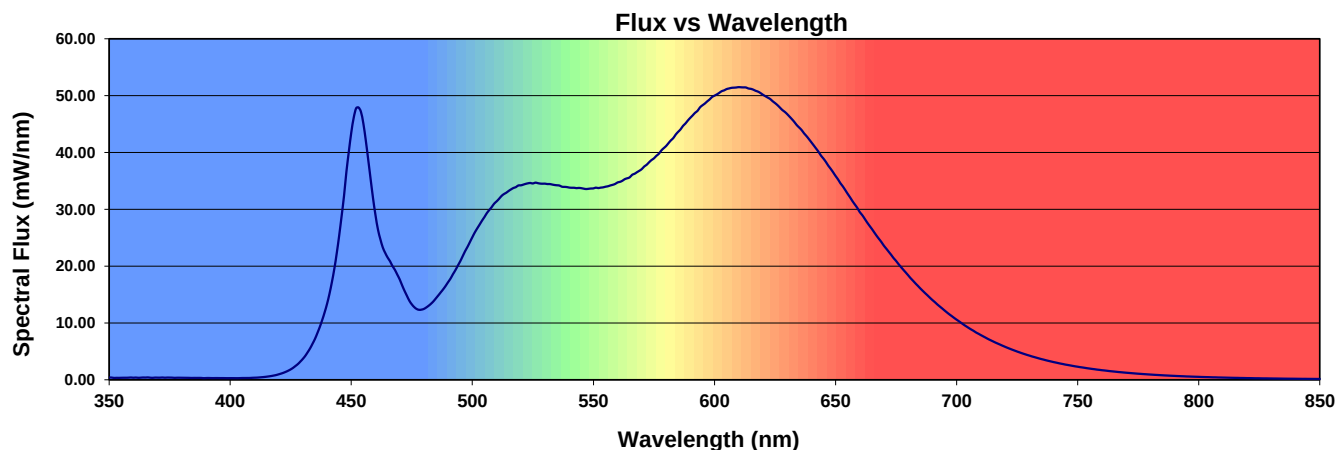
Summary of Results

Total Output:	2719 Lumens	Chromaticity (x):	0.4046
Efficacy:	91.9 lm/w	Chromaticity (y):	0.3875
CCT:	3486 K	Chromaticity (u'):	0.2366
CRI (Ra):	94.5	Chromaticity (v'):	0.5098
CRI (R9):	57.1	TM-30 Rf:	91.9
Peak Wavelength:	610 nm	TM-30 Rg:	99.7
Dominant Wavelength:	582 nm	Duv:	-0.0015
S/P Ratio:	1.65		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.5	96.3	98.2	98.6	97.0	96.5	95.8	91.6	81.8	57.1	95.8	95.6	79.5	97.6	99.3	90.6





Distribution - Goniophotometer

Distribution Test Conditions

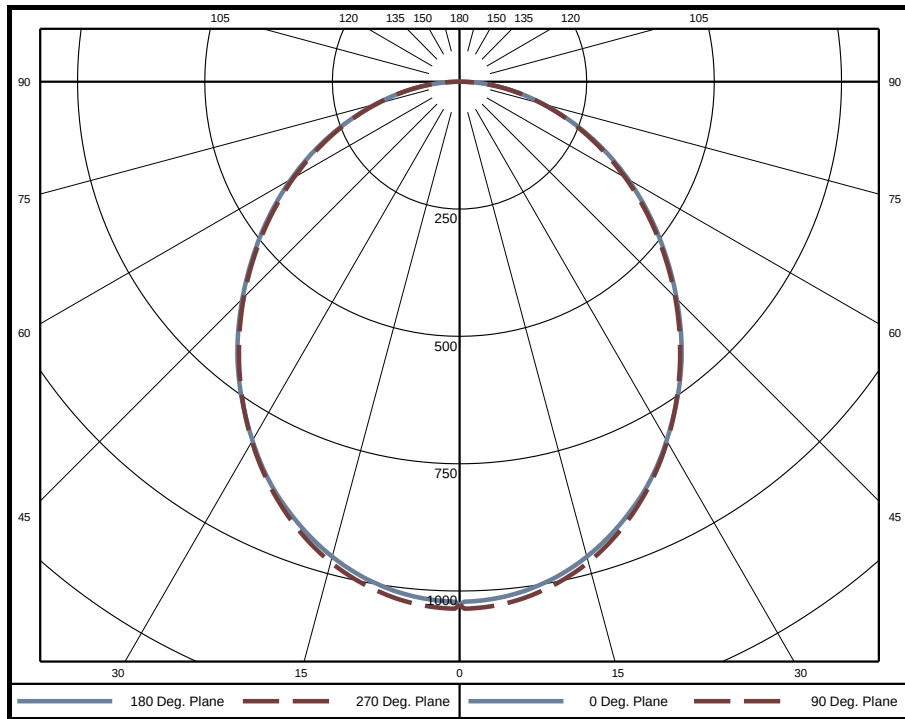
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.2488 A	29.54 W	0.989	60 Hz	13.7 %

Summary of Results

Spacing Criteria
 0-180: 1.18
 90-270: 1.19

Total Lumen Output: 2653 Lumens
 Luminaire Efficacy: 89.8 lm/w
 Maximum Candela: 1035 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	24.5	0.9%	60-65	166.5	6.3%	120-125	0	0.0%
5-10	72.3	2.7%	65-70	137.3	5.2%	125-130	0	0.0%
10-15	116.9	4.4%	70-75	106.2	4.0%	130-135	0	0.0%
15-20	156.3	5.9%	75-80	74.6	2.8%	135-140	0	0.0%
20-25	189.0	7.1%	80-85	43.7	1.6%	140-145	0	0.0%
25-30	213.7	8.1%	85-90	14.2	0.5%	145-150	0	0.0%
30-35	229.9	8.7%	90-95	0	0.0%	150-155	0	0.0%
35-40	237.5	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	236.7	8.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	228.2	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	213.0	8.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	192.0	7.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1240	46.7%
0-60	2110	79.5%
0-90	2653	100.0%
90-180	0	0.0%



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	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027
	5	1015	1020	1020	1019	1029	1019	1020	1020	1015	1020	1020	1019	1029	1019	1020
	10	996	1001	1001	1000	1009	1000	1001	1001	996	1001	1001	1000	1009	1000	1001
	15	966	970	969	968	977	968	969	970	966	970	969	968	977	968	969
	20	924	929	927	925	933	925	927	929	924	929	927	925	933	925	927
	25	874	877	875	872	879	872	875	877	874	877	875	872	879	872	875
	30	814	818	814	810	816	810	814	818	814	818	814	810	816	810	814
	35	749	752	747	743	747	743	747	752	749	752	747	743	747	743	747
	40	679	682	677	670	674	670	677	682	679	682	677	670	674	670	677
	45	604	609	603	597	600	597	603	609	604	609	603	597	600	597	603
	50	529	536	528	522	524	522	528	536	529	536	528	522	524	522	528
	55	455	460	452	447	449	447	452	460	455	460	452	447	449	447	452
	60	382	385	378	374	376	374	378	385	382	385	378	374	376	374	378
	65	310	311	306	302	304	302	306	311	310	311	306	302	304	302	306
	70	239	240	236	234	234	234	236	240	239	240	236	234	234	234	236
	75	171	173	171	169	169	169	171	173	171	173	171	169	169	169	171
	80	110	111	109	108	108	108	109	111	110	111	109	108	108	108	109
	85	53	53	52	51	52	51	52	53	53	53	52	51	52	51	52
	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	16580	16580
	45	13790	13780
	55	12800	12730
	65	11850	11690
	75	10670	10650
	85	9808	9696



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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

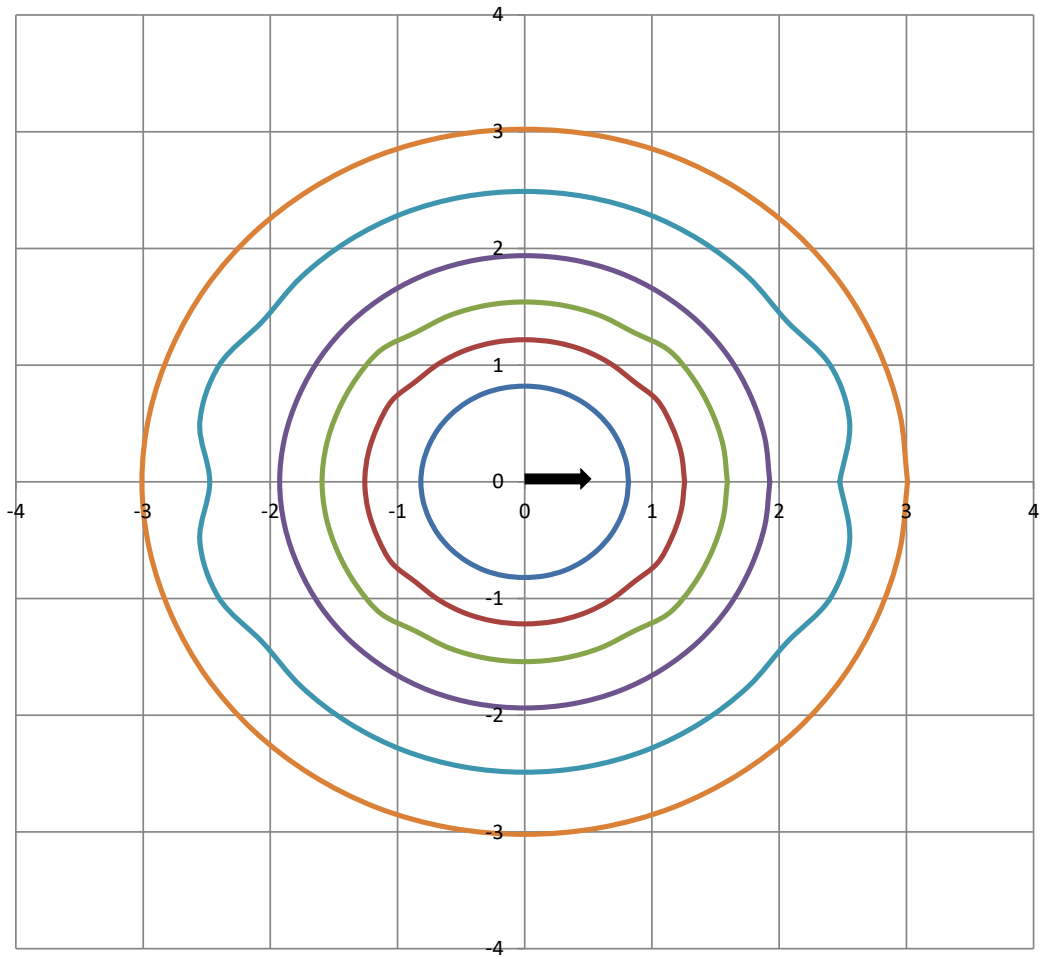
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	1027 Candela
Central Cone Intensity:	1025 Candela
Beam Flux:	1746.9 Lumens
Beam Angle (0-180):	102.0 Degrees
Beam Angle (90-270):	101.4 Degrees
Field Angle (0-180):	161.2 Degrees
Field Angle (90-270):	161.0 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		64.2	4.74
6.00		28.5	7.11
8.00		16.0	9.48
10.0		10.3	11.8
12.0		7.13	14.2
14.0		5.24	16.6
16.0		4.01	19.0



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