



BSS746-48-35-ND-R-D-C4-SN-AW

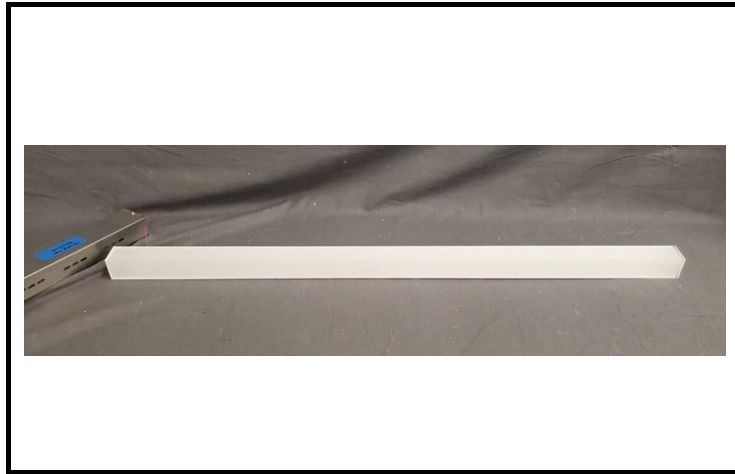
Luminaire Description: Wedge 2"x2" Luminaire, 48" nom., 3500°K, Remote 120-277V Non-dimming Driver, Regular Output, Direct Orientation, 4' cable mount, Single configuration, Architectural White Finish

Lamp: 112 White LEDs

Mounting: Surface – Ceiling

Ballast/Driver: One (1) Signify North America / XI040C110V054BST2

Luminaire



Luminaire Characteristics

Luminous Length: 2.00 in.
Luminous Width: 48.00 in.
Luminous Height: 2.00 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3418 Lumens
Efficacy: 119.42 lm/w
CCT: 3431 K
CRI (Ra): 92.4

Distribution

Total Luminaire Output: 3271 Lumens
Luminaire Efficacy: 114.4 lm/w
Maximum Candela: 856 Candela

Electrical Data at 120 VAC

Test Temperature: 25.4 °C
Voltage: 120.1 VAC
Current: 0.2412 A
Power: 28.62 W
Power Factor: 0.989
Frequency: 60 Hz
Current THD: 12.1 %



Color Quality - Integrating Sphere

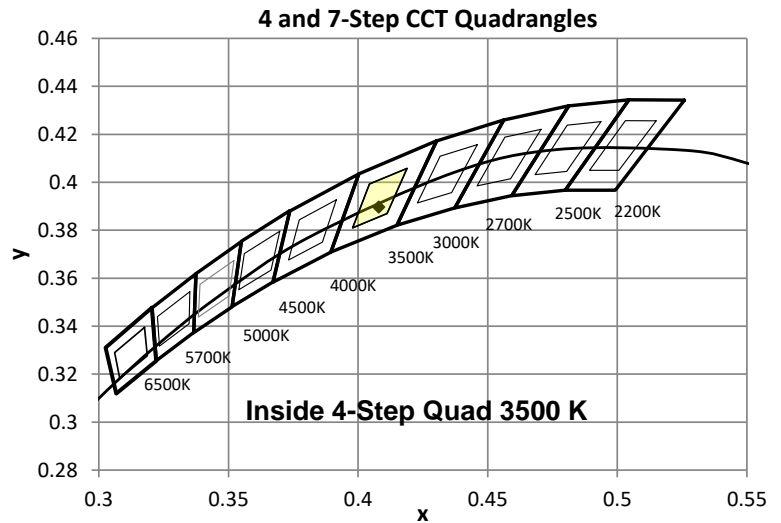
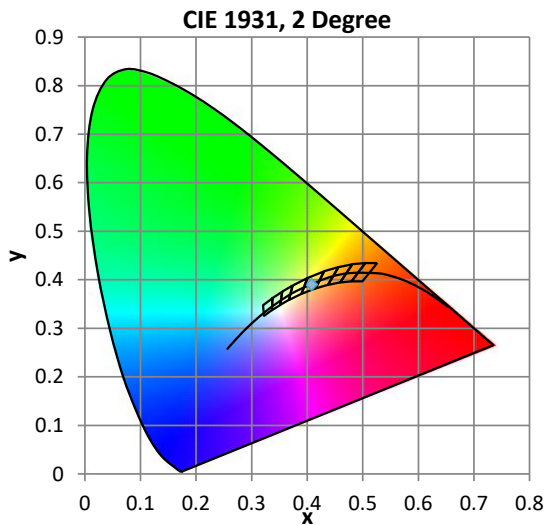
Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.2412 A	28.62 W	0.989	60 Hz	12.1 %

Summary of Results

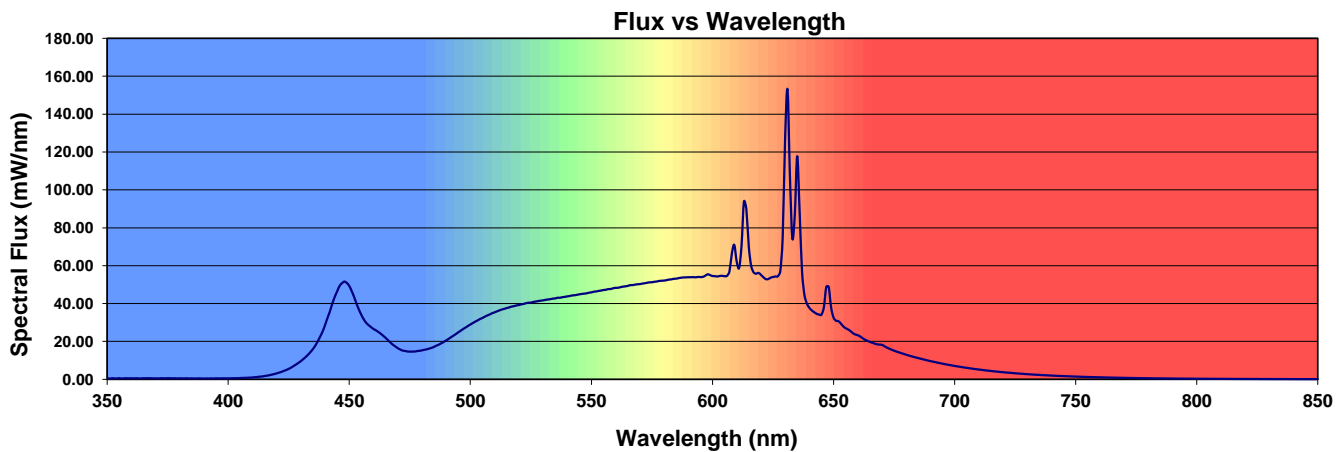
Total Output:	3418 Lumens	Chromaticity (x):	0.4080
Efficacy:	119.4 lm/w	Chromaticity (y):	0.3897
CCT:	3431 K	Chromaticity (u'):	0.2379
CRI (Ra):	92.4	Chromaticity (v'):	0.5112
CRI (R9):	59.6	TM-30 Rf:	90
Peak Wavelength:	631 nm	TM-30 Rg:	102
Dominant Wavelength:	582 nm	TM-30 Rcs,h1:	-5%
S/P Ratio:	1.57	Duv:	-0.0011
M/P Ratio:	0.61		

WELL Building Standard v2



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.4	93.8	94.7	94.1	93.5	93.2	93.4	92.6	84.0	59.6	86.1	94.2	79.6	93.8	95.8	90.2





Distribution - Goniophotometer

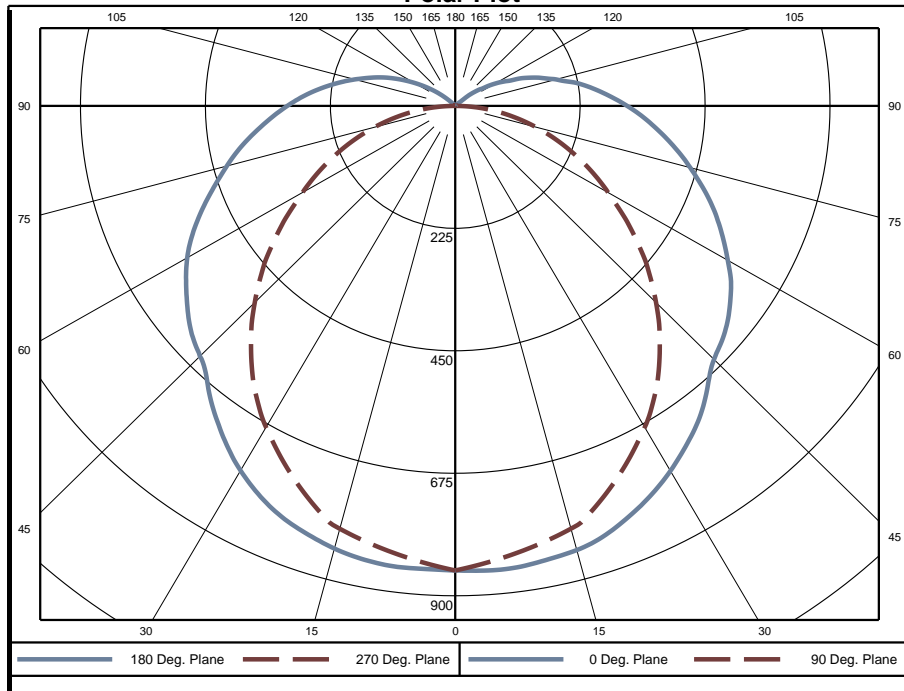
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.2402 A	28.59 W	0.991	60 Hz	11.1 %

Summary of Results

Spacing Criteria	Total Lumen Output:	3271 Lumens
0-180: 1.35	Luminaire Efficacy:	114.4 lm/w
90-270: 1.19	Maximum Candela:	856 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)	Endwise:	19.7
Crosswise: 27.6		

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.3	0.6%	60-65	201.9	6.2%	120-125	11.1	0.3%
5-10	60.0	1.8%	65-70	186.9	5.7%	125-130	5.0	0.2%
10-15	97.9	3.0%	70-75	170.6	5.2%	130-135	1.3	0.0%
15-20	133.0	4.1%	75-80	152.9	4.7%	135-140	0.5	0.0%
20-25	163.3	5.0%	80-85	133.6	4.1%	140-145	0.4	0.0%
25-30	188.2	5.8%	85-90	113.6	3.5%	145-150	0.3	0.0%
30-35	206.8	6.3%	90-95	94.9	2.9%	150-155	0.3	0.0%
35-40	218.1	6.7%	95-100	77.7	2.4%	155-160	0.2	0.0%
40-45	223.0	6.8%	100-105	60.4	1.8%	160-165	0.2	0.0%
45-50	223.2	6.8%	105-110	43.7	1.3%	165-170	0.1	0.0%
50-55	219.7	6.7%	110-115	29.8	0.9%	170-175	0.1	0.0%
55-60	212.7	6.5%	115-120	19.5	0.6%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1088	33.2%
0-60	1966	60.1%
0-90	2926	89.4%
90-180	346	10.6%



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	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6	853.6
5	856.0	849.3	843.5	839.3	837.6	839.0	842.5	847.2	853.0	847.2	842.5	839.0	837.6	839.3	843.5	849.3
10	852.0	838.9	829.8	823.9	821.3	825.8	831.1	840.2	851.2	840.2	831.1	825.8	821.3	823.9	829.8	838.9
15	845.1	824.1	810.2	805.5	804.4	811.9	818.3	828.1	842.0	828.1	818.3	811.9	804.4	805.5	810.2	824.1
20	829.0	804.7	788.6	782.5	769.6	777.3	795.9	811.4	826.6	811.4	795.9	777.3	769.6	782.5	788.6	804.7
25	804.2	774.8	763.4	738.3	726.7	738.6	762.8	790.1	804.9	790.1	762.8	738.6	726.7	738.3	763.4	774.8
30	774.8	739.9	728.9	692.4	682.2	698.0	728.2	755.9	773.6	755.9	728.2	698.0	682.2	692.4	728.9	739.9
35	740.9	701.7	677.3	641.7	631.9	643.0	681.0	719.5	733.9	719.5	681.0	643.0	631.9	641.7	677.3	701.7
40	700.7	660.8	623.9	585.2	572.9	587.8	630.6	672.8	689.4	672.8	630.6	587.8	572.9	585.2	623.9	660.8
45	659.1	613.1	570.5	526.9	511.4	526.8	580.4	629.9	650.6	629.9	580.4	526.8	511.4	526.9	570.5	613.1
50	636.2	584.1	513.4	466.3	448.8	468.1	528.0	595.7	624.7	595.7	528.0	468.1	448.8	466.3	513.4	584.1
55	605.7	559.4	463.8	405.8	381.7	411.5	469.6	565.9	591.5	565.9	469.6	411.5	381.7	405.8	463.8	559.4
60	566.8	528.5	432.4	345.7	317.6	351.5	436.0	530.7	557.5	530.7	436.0	351.5	317.6	345.7	432.4	528.5
65	526.0	488.2	401.3	286.7	260.9	292.1	400.6	489.7	515.6	489.7	400.6	292.1	260.9	286.7	401.3	488.2
70	483.4	448.2	365.1	237.9	205.0	234.8	362.4	446.1	469.2	446.1	362.4	234.8	205.0	237.9	365.1	448.2
75	438.2	403.9	327.2	204.5	150.5	200.7	323.5	405.1	425.8	405.1	323.5	200.7	150.5	204.5	327.2	403.9
80	394.4	360.1	287.9	171.5	98.2	167.6	285.8	363.6	384.3	363.6	285.8	167.6	98.2	171.5	287.9	360.1
85	351.8	317.8	248.7	142.4	48.4	135.3	248.8	322.9	341.9	322.9	248.8	135.3	48.4	142.4	248.7	317.8
90	309.6	277.7	210.0	113.2	2.8	104.9	212.7	283.8	302.6	283.8	212.7	104.9	2.8	113.2	210.0	277.7
95	268.5	239.1	173.9	84.5	2.1	76.2	177.3	244.7	264.2	244.7	177.3	76.2	2.1	84.5	173.9	239.1
100	229.8	198.6	138.1	57.3	1.8	50.0	143.1	207.0	225.2	207.0	143.1	50.0	1.8	57.3	138.1	198.6
105	188.0	150.7	105.0	31.4	1.5	26.4	110.0	170.4	187.8	170.4	110.0	26.4	1.5	31.4	105.0	150.7
110	152.0	105.7	72.6	6.8	1.3	5.6	79.1	135.4	152.8	135.4	79.1	5.6	1.3	6.8	72.6	105.7
115	110.5	72.3	45.9	2.1	1.0	1.5	51.0	101.3	118.2	101.3	51.0	1.5	1.0	2.1	45.9	72.3
120	80.8	48.3	24.0	1.9	0.8	1.1	25.5	69.4	84.1	69.4	25.5	1.1	0.8	1.9	24.0	48.3
125	51.1	28.9	3.8	1.6	0.7	0.9	4.0	40.4	53.2	40.4	4.0	0.9	0.7	1.6	3.8	28.9
130	11.2	12.0	2.4	1.3	0.8	0.8	1.5	14.2	25.1	14.2	1.5	0.8	0.8	1.3	2.4	12.0
135	2.1	3.0	2.0	1.2	0.8	0.7	1.1	1.6	2.5	1.6	1.1	0.7	0.8	1.2	2.0	3.0
140	1.7	2.0	1.7	1.3	0.9	0.7	0.9	1.1	1.1	1.1	0.9	0.7	0.9	1.3	1.7	2.0
145	1.6	2.0	1.7	1.3	0.9	0.7	0.8	0.9	0.8	0.9	0.8	0.7	0.9	1.3	1.7	2.0
150	1.6	1.8	1.6	1.3	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.3	1.6	1.8
155	1.6	1.6	1.6	1.3	1.1	0.8	0.7	0.6	0.5	0.6	0.7	0.8	1.1	1.3	1.6	1.6
160	1.5	1.5	1.5	1.3	1.1	0.9	0.7	0.6	0.5	0.6	0.7	0.9	1.1	1.3	1.5	1.5
165	1.4	1.4	1.4	1.3	1.1	0.9	0.8	0.6	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.4
170	1.3	1.3	1.3	1.2	1.1	1.0	0.8	0.8	0.7	0.8	0.8	1.0	1.1	1.2	1.3	1.3
175	1.2	1.2	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
180	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	13780	13780	13780
45	7524	7502	11210
55	7022	6362	10140
65	6391	5944	9149
75	5776	5444	8126
85	5243	4892	6076

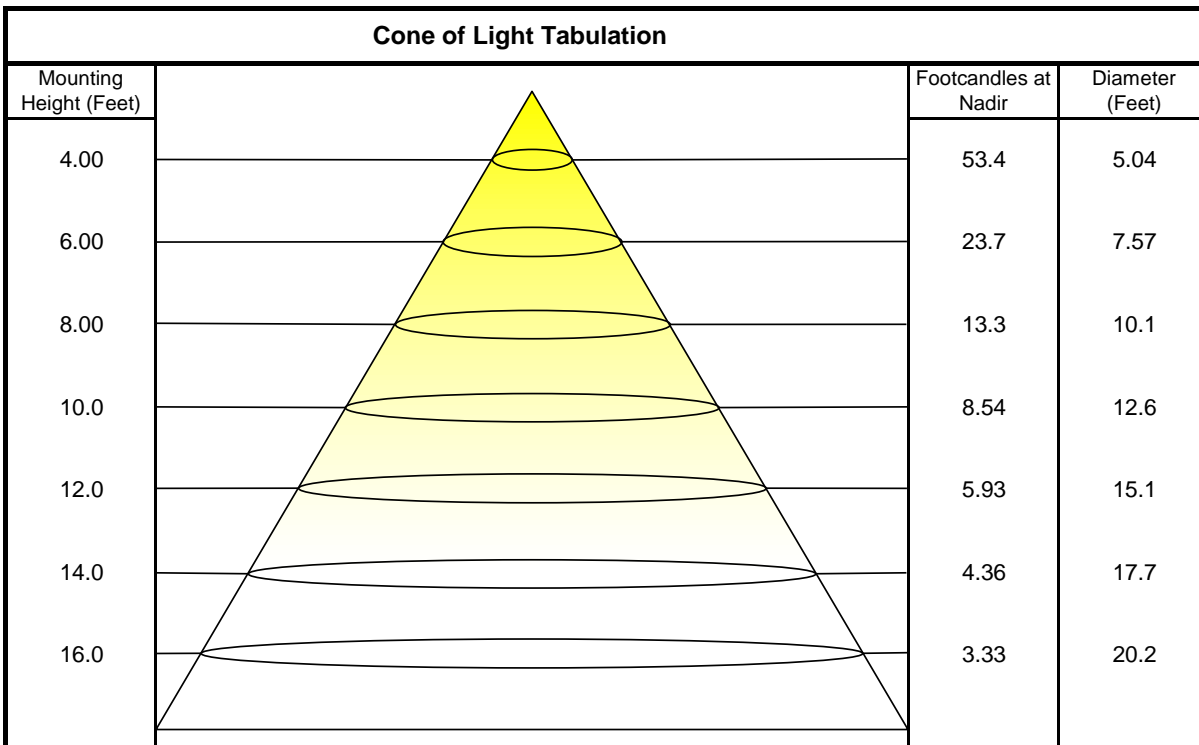


Coefficients of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	89
1	103	97	92	87	99	94	89	85	88	84	80	82	79	76	77	74	72	69
2	93	83	76	69	89	81	73	67	75	69	64	70	65	61	66	62	58	55
3	84	73	63	56	81	70	62	55	66	58	53	61	55	50	57	52	48	45
4	77	64	54	47	74	62	53	46	58	50	44	54	48	43	51	45	41	38
5	70	57	47	40	68	55	46	39	52	44	38	48	42	37	46	40	35	33
6	65	51	42	35	62	49	41	34	46	39	33	44	37	32	41	35	31	28
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	27	25
8	56	42	33	27	54	41	32	27	39	31	26	36	30	25	35	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	34	27	23	32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18

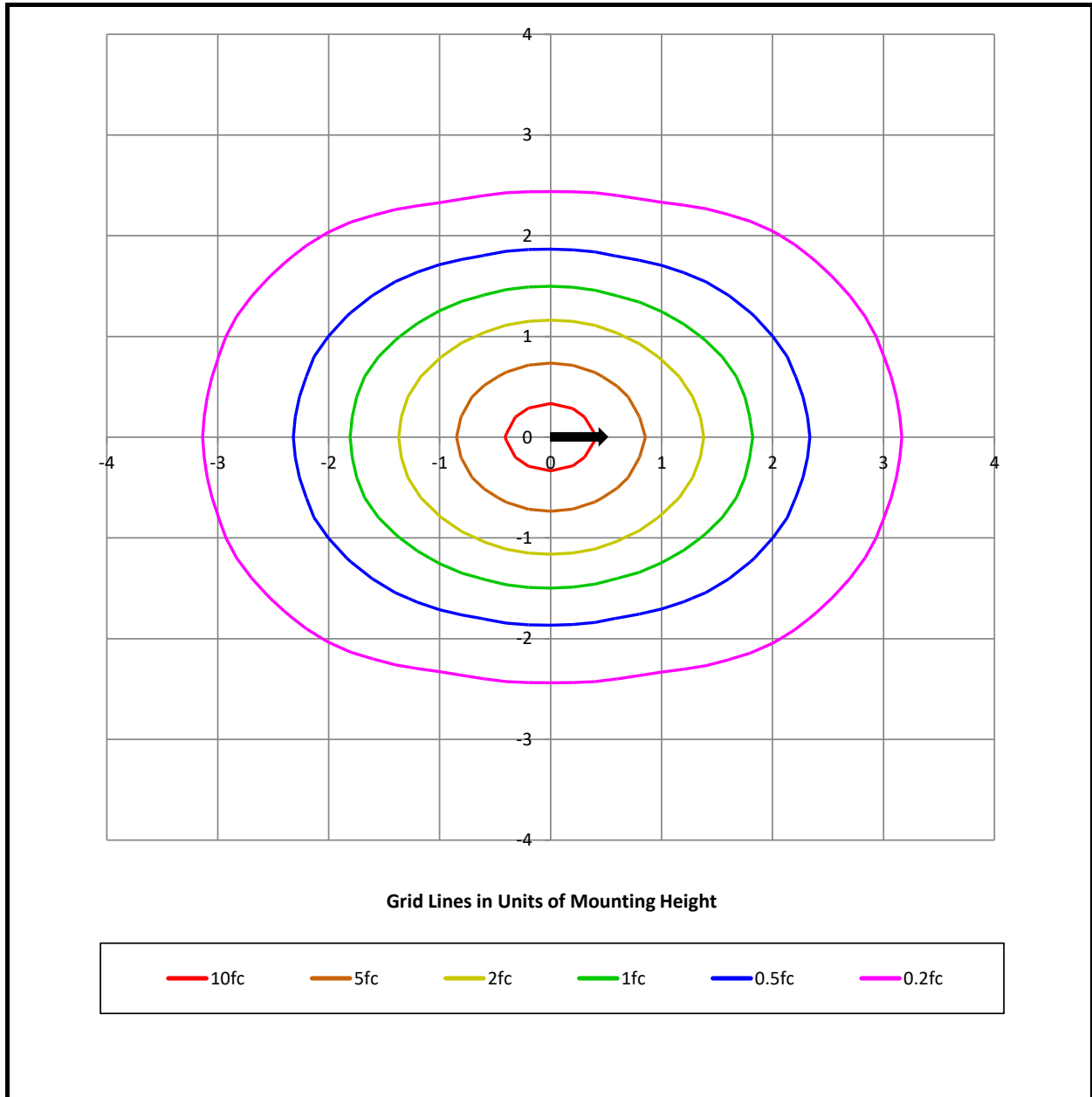
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	853.6 Candela
Central Cone Intensity:	849 Candela
Beam Flux:	2130.2 Lumens
Beam Angle (0-180):	151.2 Degrees
Beam Angle (90-270):	103.2 Degrees
Field Angle (0-180):	239.1 Degrees
Field Angle (90-270):	162.5 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



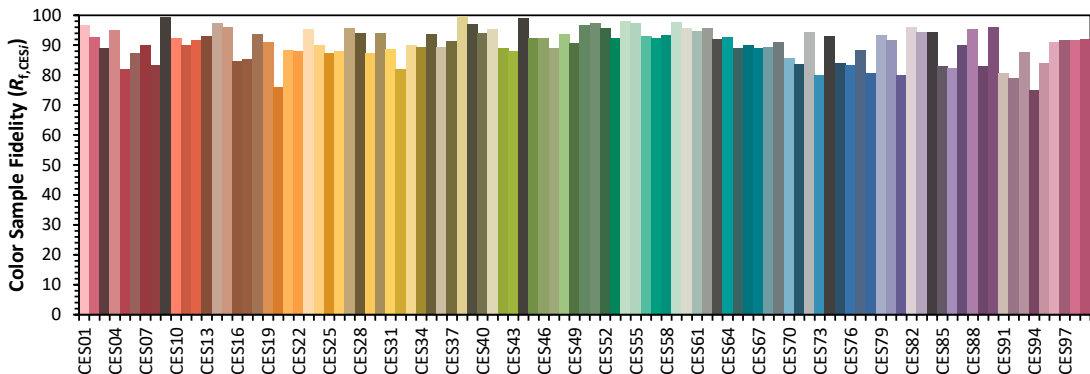
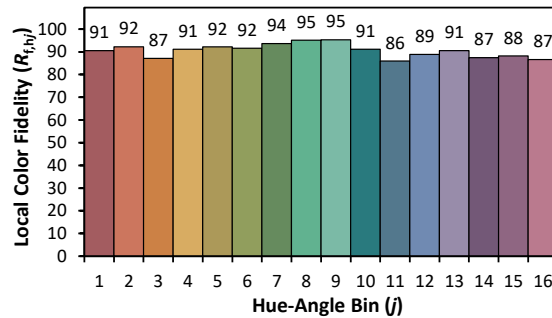
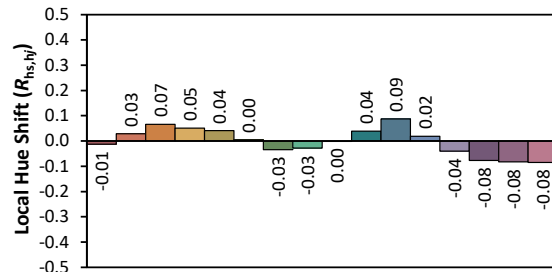
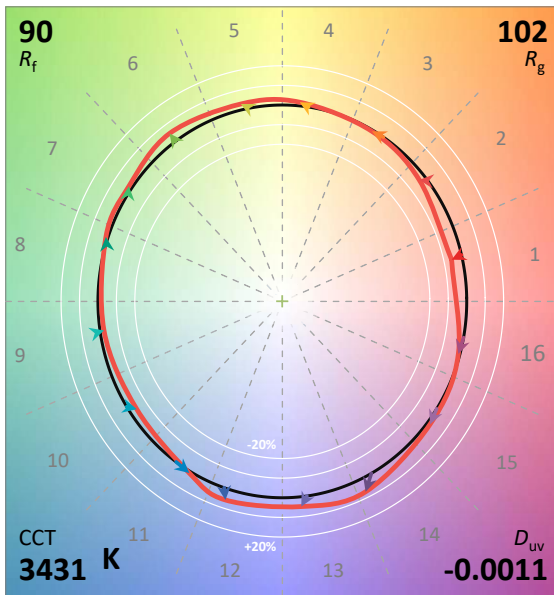
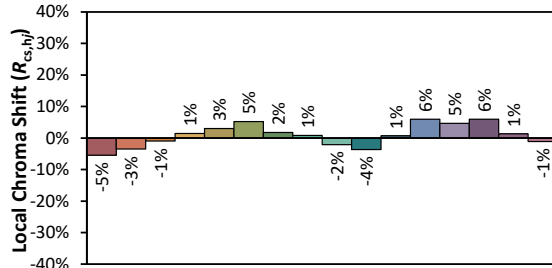
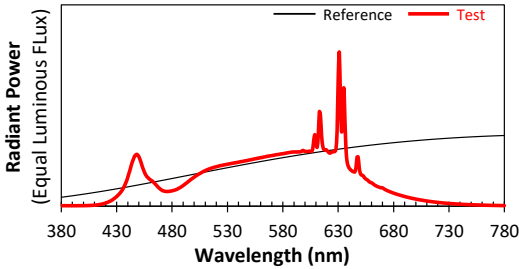
ANSI/IES TM-30-18 Color Rendition Report

Date: 2021-07-29

Manufacturer: BARTCO LIGHTING INC

Model:

BSS746-48-35-ND-R-D-C4-SN-AW



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4080
y 0.3897
u' 0.2379
v' 0.5112

CIE 13.3-1995 (CRI)	
R_a	92
R_9	60

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.

