



BLT210-4-35-ND-R-A-SM-AW

Luminaire Description: White rectangular metal housing with diffuse plastic lens
Lamp: 112 White LEDs
Mounting: Surface – Ceiling
Ballast/Driver: One (1) Phillips Advance XI040C110V054BST1

Luminaire



Luminaire Characteristics

Luminous Length: 44.00 in.
Luminous Width: 2.250 in.
Luminous Height: 2.25 in.

Summary of Results

Integrating Sphere

Luminous Flux: 3330 Lumens
Efficacy: 117.26 lm/w
CCT: 3447 K
CRI (Ra): 92.9

Distribution

Total Luminaire Output: 3195 Lumens
Luminaire Efficacy: 112.5 lm/w
Maximum Candela: 603 Candela

Electrical Data at 120 VAC

Test Temperature: 25.1 °C
Voltage: 120.1 VAC
Current: 0.2381 A
Power: 28.40 W
Power Factor: 0.991
Frequency: 60 Hz
Current THD: 7.56 %



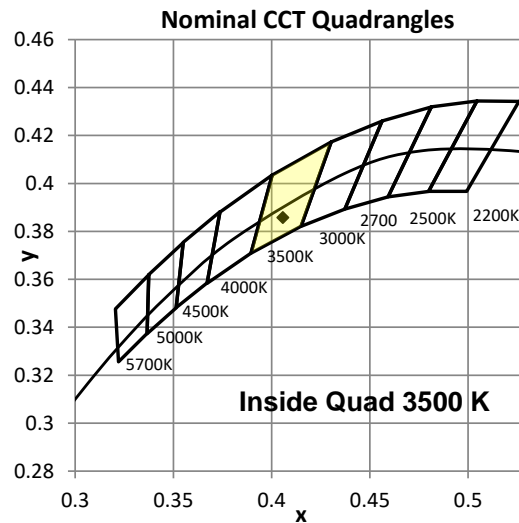
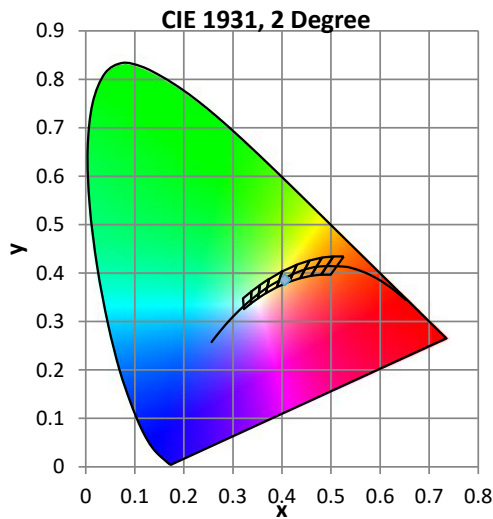
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.2381 A	28.40 W	0.991	60 Hz	7.56 %

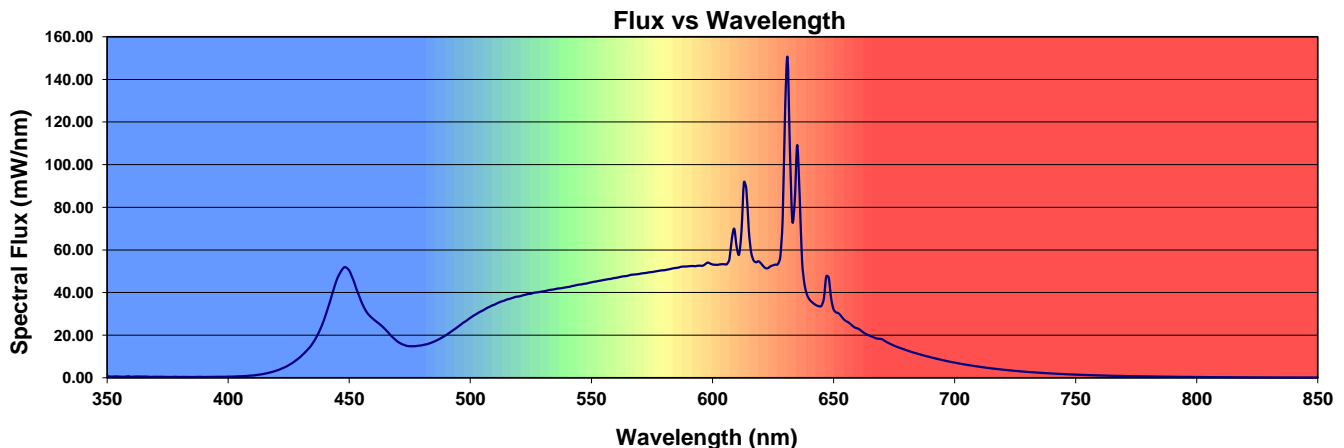
Summary of Results

Total Output:	3330 Lumens	Chromaticity (x):	0.4057
Efficacy:	117.3 lm/w	Chromaticity (y):	0.3858
CCT:	3447 K	Chromaticity (u'):	0.2380
CRI (Ra):	92.9	Chromaticity (v'):	0.5093
CRI (R9):	62.1	TM-30 Rf:	90.5
Peak Wavelength:	631 nm	TM-30 Rg:	101.8
Dominant Wavelength:	582 nm	Duv:	-0.0026
S/P Ratio:	1.58		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.9	94.7	95.3	94.1	93.7	94.0	93.9	92.5	84.9	62.1	87.2	94.2	80.7	94.7	95.8	91.6





Distribution - Goniophotometer

Distribution Test Conditions

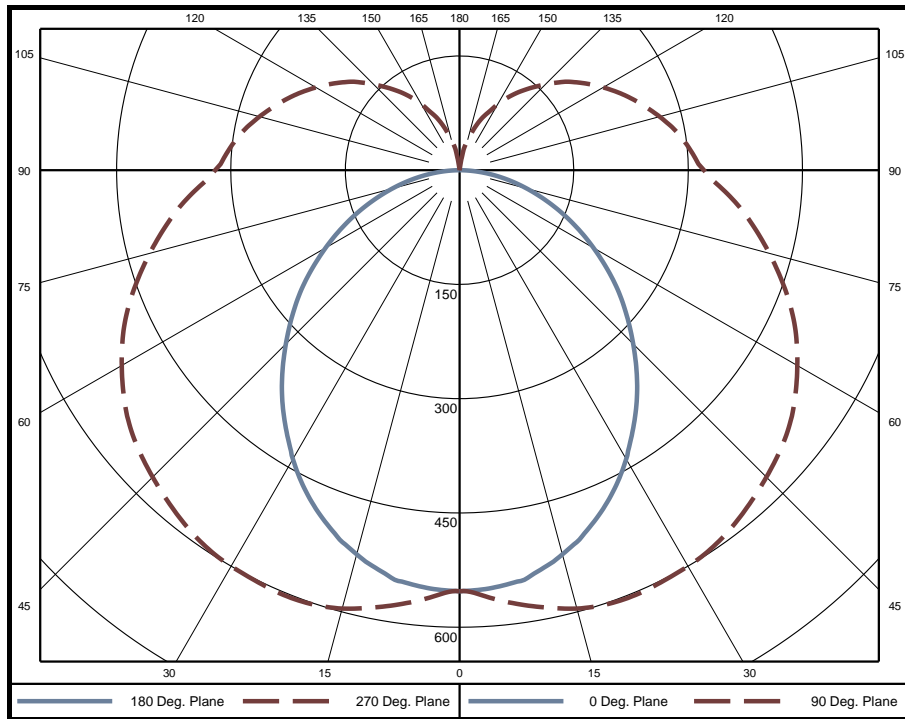
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
26.0 °C	120.1 VAC	0.2383 A	28.40 W	0.992	60 Hz	7.64 %

Summary of Results

Spacing Criteria
 0-180: 1.18
 90-270: 1.61

Total Lumen Output: 3195 Lumens
Luminaire Efficacy: 112.5 lm/w
Maximum Candela: 603 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	13.3	0.4%	60-65	180.2	5.6%	120-125	58.4	1.8%
5-10	40.3	1.3%	65-70	171.0	5.4%	125-130	49.7	1.6%
10-15	67.1	2.1%	70-75	158.7	5.0%	130-135	40.9	1.3%
15-20	92.9	2.9%	75-80	144.6	4.5%	135-140	32.6	1.0%
20-25	116.6	3.6%	80-85	129.3	4.0%	140-145	25.1	0.8%
25-30	137.2	4.3%	85-90	112.9	3.5%	145-150	18.3	0.6%
30-35	154.7	4.8%	90-95	102.8	3.2%	150-155	12.6	0.4%
35-40	168.5	5.3%	95-100	97.8	3.1%	155-160	8.1	0.3%
40-45	178.4	5.6%	100-105	91.4	2.9%	160-165	4.5	0.1%
45-50	184.8	5.8%	105-110	83.8	2.6%	165-170	2.0	0.1%
50-55	187.5	5.9%	110-115	75.6	2.4%	170-175	0.5	0.0%
55-60	185.7	5.8%	115-120	67.1	2.1%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	791	24.7%
0-60	1527	47.8%
0-90	2424	75.9%
90-180	771	24.1%



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	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
5	548.9	552.5	560.3	565.0	565.7	565.0	560.3	552.5	548.9	552.5	560.3	565.0	565.7	565.0	560.3	552.5
10	540.1	552.2	568.3	578.9	581.5	578.9	568.3	552.2	540.1	552.2	568.3	578.9	581.5	578.9	568.3	552.2
15	521.7	543.4	570.6	589.1	595.4	589.1	570.6	543.4	521.7	543.4	570.6	589.1	595.4	589.1	570.6	543.4
20	498.7	530.3	568.2	594.6	602.4	594.6	568.2	530.3	498.7	530.3	568.2	594.6	602.4	594.6	568.2	530.3
25	470.7	512.0	559.3	591.5	602.4	591.5	559.3	512.0	470.7	512.0	559.3	591.5	602.4	591.5	559.3	512.0
30	437.6	488.4	545.3	585.6	599.8	585.6	545.3	488.4	437.6	488.4	545.3	585.6	599.8	585.6	545.3	488.4
35	400.6	461.0	528.7	576.6	593.9	576.6	528.7	461.0	400.6	461.0	528.7	576.6	593.9	576.6	528.7	461.0
40	362.7	431.8	508.4	562.6	582.6	562.6	508.4	431.8	362.7	431.8	508.4	562.6	582.6	562.6	508.4	431.8
45	322.5	400.7	485.9	546.8	569.4	546.8	485.9	400.7	322.5	400.7	485.9	546.8	569.4	546.8	485.9	400.7
50	283.2	368.4	461.9	529.7	555.1	529.7	461.9	368.4	283.2	368.4	461.9	529.7	555.1	529.7	461.9	368.4
55	243.4	335.2	435.2	508.6	535.8	508.6	435.2	335.2	243.4	335.2	435.2	508.6	535.8	508.6	435.2	335.2
60	202.6	300.0	405.5	483.1	511.8	483.1	405.5	300.0	202.6	300.0	405.5	483.1	511.8	483.1	405.5	300.0
65	163.5	264.6	373.9	455.4	485.7	455.4	373.9	264.6	163.5	264.6	373.9	455.4	485.7	455.4	373.9	264.6
70	125.5	229.2	340.0	423.6	454.4	423.6	340.0	229.2	125.5	229.2	340.0	423.6	454.4	423.6	340.0	229.2
75	89.8	195.0	306.2	390.3	420.8	390.3	306.2	195.0	89.8	195.0	306.2	390.3	420.8	390.3	306.2	195.0
80	57.0	162.0	274.0	357.7	387.5	357.7	274.0	162.0	57.0	162.0	274.0	357.7	387.5	357.7	274.0	162.0
85	26.3	131.4	242.2	323.8	352.8	323.8	242.2	131.4	26.3	131.4	242.2	323.8	352.8	323.8	242.2	131.4
90	1.1	105.4	214.5	293.3	320.8	293.3	214.5	105.4	1.1	105.4	214.5	293.3	320.8	293.3	214.5	105.4
95	0.0	100.2	204.4	278.7	304.1	278.7	204.4	100.2	0.0	100.2	204.4	278.7	304.1	278.7	204.4	100.2
100	0.0	96.4	195.6	265.8	289.5	265.8	195.6	96.4	0.0	96.4	195.6	265.8	289.5	265.8	195.6	96.4
105	0.0	91.2	185.2	250.0	271.9	250.0	185.2	91.2	0.0	91.2	185.2	250.0	271.9	250.0	185.2	91.2
110	0.0	85.0	173.2	233.8	254.0	233.8	173.2	85.0	0.0	85.0	173.2	233.8	254.0	233.8	173.2	85.0
115	0.0	78.3	161.2	217.4	236.1	217.4	161.2	78.3	0.0	78.3	161.2	217.4	236.1	217.4	161.2	78.3
120	0.0	71.5	147.2	200.5	217.6	200.5	147.2	71.5	0.0	71.5	147.2	200.5	217.6	200.5	147.2	71.5
125	0.0	64.1	135.3	182.5	199.4	182.5	135.3	64.1	0.0	64.1	135.3	182.5	199.4	182.5	135.3	64.1
130	0.0	55.9	120.5	164.9	181.0	164.9	120.5	55.9	0.0	55.9	120.5	164.9	181.0	164.9	120.5	55.9
135	0.0	48.6	100.5	147.6	159.6	147.6	100.5	48.6	0.0	48.6	100.5	147.6	159.6	147.6	100.5	48.6
140	0.0	41.1	86.4	129.6	139.8	129.6	86.4	41.1	0.0	41.1	86.4	129.6	139.8	129.6	86.4	41.1
145	0.0	34.8	72.3	106.1	120.7	106.1	72.3	34.8	0.0	34.8	72.3	106.1	120.7	106.1	72.3	34.8
150	0.0	28.6	59.3	84.5	100.6	84.5	59.3	28.6	0.0	28.6	59.3	84.5	100.6	84.5	59.3	28.6
155	0.0	22.4	47.6	64.8	80.5	64.8	47.6	22.4	0.0	22.4	47.6	64.8	80.5	64.8	47.6	22.4
160	0.0	16.3	36.2	47.5	61.5	47.5	36.2	16.3	0.0	16.3	36.2	47.5	61.5	47.5	36.2	16.3
165	0.0	11.1	24.5	30.4	41.6	30.4	24.5	11.1	0.0	11.1	24.5	30.4	41.6	30.4	24.5	11.1
170	0.0	6.5	14.1	16.4	19.1	16.4	14.1	6.5	0.0	6.5	14.1	16.4	19.1	16.4	14.1	6.5
175	0.0	2.0	4.8	4.9	1.5	4.9	4.8	2.0	0.0	2.0	4.8	4.9	1.5	4.9	4.8	2.0
180	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	8650	8650	8650
45	6794	6172	6303
55	6193	5763	6023
65	5459	5339	5722
75	4564	4908	5379
85	2986	4582	5098

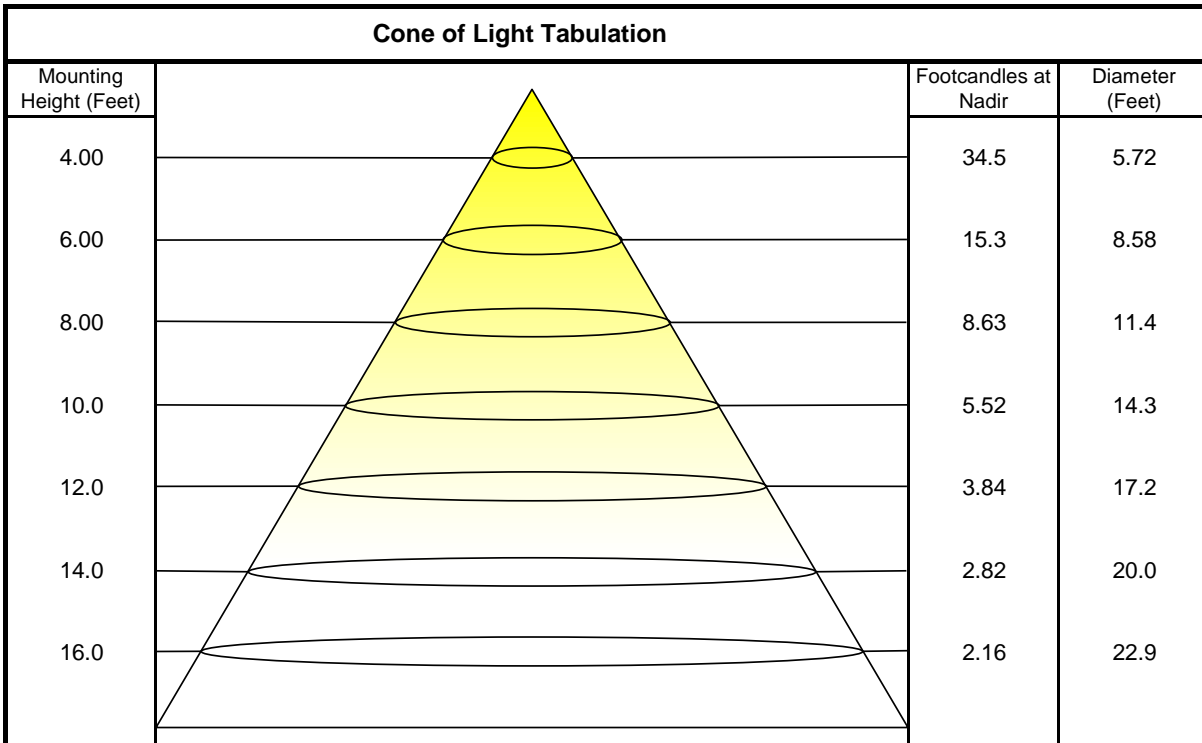


Coefficients of Utilization - Zonal Cavity Method

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	98	98	98	88	88	88	80	80	80	76
1	100	94	89	84	95	89	84	80	81	77	73	72	69	67	65	63	60	57
2	90	80	72	66	85	76	69	63	69	63	58	62	57	53	55	52	48	45
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	48	43	40	36
4	74	61	51	44	69	58	49	42	52	45	39	47	41	36	42	37	33	30
5	67	54	44	37	63	51	42	36	46	39	33	42	36	31	37	32	28	25
6	62	48	39	32	58	46	37	31	42	34	29	38	31	27	34	29	24	22
7	57	43	34	28	54	41	33	27	38	30	25	34	28	23	31	25	21	19
8	53	39	30	24	50	37	29	24	34	27	22	31	25	21	28	23	19	17
9	49	36	27	22	47	34	26	21	31	24	20	29	23	18	26	21	17	15
10	46	33	25	19	44	31	24	19	29	22	18	26	21	17	24	19	15	13

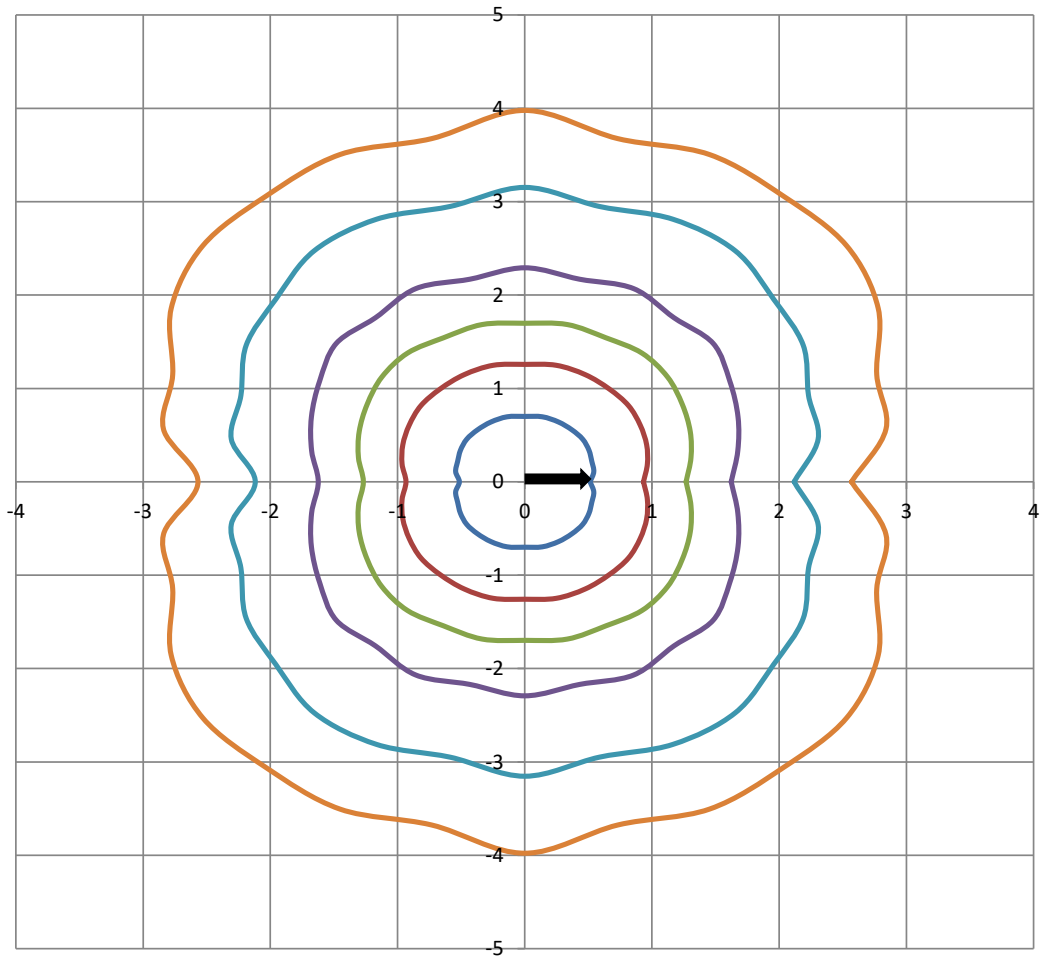
Beam and Field Information	
CIE Type:	Semi-Direct
Center Beam Intensity:	552.5 Candela
Central Cone Intensity:	555 Candela
Beam Flux:	2266.9 Lumens
Beam Angle (0-180):	101.8 Degrees
Beam Angle (90-270):	207.6 Degrees
Field Angle (0-180):	160.5 Degrees
Field Angle (90-270):	322.9 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

